

TD Air quality monitoring report
Ontario 1982 : vol. 1 summary
of data /

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AIR QUALITY 1985 MONITORING REPORT ONTARIO

VOL.1

1982

Summary of Data

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Ministry of the Environment

Hon, Andrew S. Brandt Minister

Dr. Allan E. Dyer Deputy Minister

Introduction:

This report, Volume 1, contains a summary of 1982 air quality data obtained by continuous monitoring instruments for gases and hi-volume samplers for particulate matter operated by the Ministry of the Environment at 193 locations across Ontario including a 20 site network run as part of the Nanticoke Environmental Monitoring Program (NEMP) survey in the counties of Norfolk and Haldimand on the north shore of Lake Erie. Wind and temperature data from 21 locations are also summarized.

Summaries of the hourly averaged data for sulphur dioxide, soiling index, carbon monoxide, hydrocarbons (total, reactive and methane), ozone, total reduced sulphur, nitrogen dioxide, nitric oxide, nitrogen oxides, wind speed, wind direction, air temperature, vertical temperature gradient and Air Pollution Index as well as the daily measured data for total suspended particulate matter, lead, iron, copper, cadmium, chromium, zinc, manganese, nickel, vanadium, sulphate and nitrate obtained at these monitoring locations are given in this report.

Hourly and daily measurements for these pollutants are available in Volumes 2-10 which are on microfiche. Volume 2 of the 1982 Air Quality Monitoring Report contains seasonal summaries for the above pollutants. Volume 3 contains the hourly data for sulphur dioxide. Volume 4 reports the soiling index data. The data for total reduced sulphur, hydrocarbons, carbon monoxide and ozone are found in Volume 5. The nitrogen oxides are reported in Volume 6. Volume 7 gives the total suspended particulate matter data. The analyses for metal content of the suspended particulate matter (lead, iron, copper, cadmium, chromium, zinc, manganese, nickel and vanadium) are reported in Volume 8. Volume 9 contains the sulphate and nitrate in particulate matter data. Meteorological measurements and

the Air Pollution Index readings are found in Volume 10.
Request for these microfiche should be sent to the Air Quality Unit, Air Quality and Meteorology Section, Air Resources Branch, Ontario Ministry of the Environment, Toronto, Ontario.

Sampling Stations:

Table 1 lists the stations in the Ontario monitoring network with continuous hourly sampling instruments. The first eight columns give the region in which the monitor is located, the station identification number and name, its bearing on the Universal Transverse Mercator (UTM) grid projection, the survey type, the elevation of the station above mean sea level and the height of the air intake above ground. The remaining seven columns indicate which pollutants, total reduced sulphur (TRS), sulphur dioxide (SO₂), soiling index, 1-hour or 2-hour sampling rate, (COH), ozone (03), carbon monoxide (CO), hydrocarbons (HC), either methane, reactive (non-methane) or total, and nitrogen oxides (NOx), including nitric oxide and nitrogen dioxide, are being monitored at that station. The survey type indicates whether a station is oriented toward a specific source (S) or for general ambient air quality (A). N indicates the site was nonconforming to the Canadian Federal-Provincial criteria for monitor siting to such a degree that resulting data may not be strictly comparable with results at other monitoring locations.

The general locations of continuous monitors across Ontario are shown in Figure 1 as well as the number of sites in each region and city. The Central Region has the most monitoring sites: 25. The locations of continuously monitoring stations for Metropolitan Toronto, Hamilton, the Sudbury area, and Windsor are shown in Figures 2, 3, 4 and

Table 2 lists the stations in the Ontario monitoring network for suspended particulate matter using the hi-volume sampling method. The first eight columns give the region in which the monitor is located, the station number and

name, the survey type, the UTM grid coordinates, the station elevation and air intake height. These columns are the same as those in Table 1. The survey type consists of a letter indicating the survey purpose, either oriented towards a specific sourse (S) or for general ambient air quality (A). N indicates the site was nonconforming to the Canadian Federal-Provincial critera for monitor siting to such a degree that resulting data may not be strictly comparable with other monitoring results, and the numeral indicates sampling frequency - daily (1), once every three days (3) or once every six days (6). The remaining three columns indicate those analyses performed on the exposed filter that are herein reported: total suspended particulate matter (TSP), one or more of the metals, lead, iron, zinc, copper, cadmium, chromium, vanadium, nickel, and manganese, and sulphate and nitrate (SO₄-2/NO₃-).

The general locations as well as the number of hi-volume monitors in each region and city are given in Figure 6. The greatest number of samplers is found in the Central Region (44), 21 of which are located in Metropolitan Toronto. The location of monitors in Metropolitan Toronto, Hamilton and Windsor are shown in Figures 7, 8 and 9 respectively.

Table 3 outlines the stations with meteorological sampling instrumentation. The first six columns are as described above for continuous and hi-volume sampling. The next column gives the sensor type: WS – wind speed, WD – wind direction, T – ambient temperature or DT – temperature gradient. The numeral indicates the general level of the sensor (1 = low, 2 = middle, 3 = high). The last column gives the sensor height in meters.

Data from the NEMP survey are provided by the NEMP project team of the Special Studies Unit of the Atmospheric Research and Special Programs Section of the Air Resources Branch who are responsible for the data acquisition and validation of NEMP data used in this report.

Criteria for Desirable Ambient Air Quality:

When pollutants are released into the ambient air, they may have a significantly adverse effect on man, animals, vegetation or property. In order to determine at what concentration significant adverse effects occur, Ontario employs a permanent standards setting committee. The committee, comprised of experts in several fields, reviews the scientific literature and recommends concentrations and averaging times for the air quality criteria. The desirable ambient air quality criteria are set at the lowest concentration causing a known significantly adverse effect. These criteria, therefore, serve as a convenient yardstick by which the Province may estimate its success in achieving its goals for desirable ambient air quality through emission controls.

Table 4 outlines the criteria for desirable ambient air quality for those contaminants contained in this report. The criteria are given in units of parts per million by volume of air, parts per billion by volume of air, coefficient of haze (COH) per 1000 feet of air or micrograms per cubic metre of air for the sampling time appropriate for each criterion: 1 hour, 8 hours, 24 hours or 1 year.

1982 Measurements:

Validation and processing of air quality data in Ontario is the responsibility of the Air Quality and Meteorology Section of the Air Resources Branch. The instrumentation, however, has been installed and maintained by the Technical Support Group in each of the six Regional Offices. Analysis of hi-volume filters is done in the Ministry's Laboratory Services and Applied Research Branch.

Continuous monitoring data are acquired in two ways.

Data from stations in major population centres and those areas which have a publicized Air Pollution Index are telemetered in real-time to the central data-acquisition facility at the Air Resources Branch in Toronto where they are digitized, stored on magnetic tape, and then computer-processed into the Air Quality Information System (AQUIS). All other data are recorded locally on analogue charts which are later read and digitized by the Air Quality Unit, Air Quality and Meteorology Section, Air Resources Branch and then processed by computer for entry into the AQUIS files in the same way as the telemetered data.

Exposed filters from the hi-volume sampling network are collected by the Regions and are sent to the Laboratory Services and Applied Research Branch. There, the total suspended particulate concentration is determined, and any required analyses for the components of the particulate matter are performed. Data are then stored in the Laboratory's Sample Information System (SIS) and, at intervals, abstracted from the SIS files to the AQUIS files.

In this Volume, the annual summaries of hourly readings of continuous monitoring and daily measurements of hivolume results for each station and contaminant are reported. Each line gives the station number and location, the number of days, hours or samples for which valid data were obtained, the percentile distribution, and, where appropriate, the number of times the air quality criteria were exceeded. For continuous monitoring results, the arithmetic mean, maximum 1-hour concentration and maximum 24-hour concentration are also reported. (In the case of carbon monoxide, the maximum 8-hour concentration is reported instead of the 24-hour concentration.) For the hi-volume results, the arithmetic mean, geometric mean and maximum 24-hour concentrations are reported. The reported percentiles (10, 30, 50, 70, 90 and 99) indicate the cumulative frequency distribution for that pollutant. That is, the concentration reported is that concentration which is not exceeded X% of the time. For example, if the 70 percentile for SO2 is .010 ppm, this means that the concentration of SO2 did not exceed .010 ppm on 70% of the hours reported for this site.

Meteorological data and the Air Pollution Index are summarized by the number of hours of data reported in various categories or by mean and percentiles depending upon the most appropriate method of reporting the data.

Only those stations which report valid readings on 6570 hours for continuous 1-hour monitoring, 3285 hours for continuous 2-hour monitoring and 40 samples for hi-volume monitoring during 1982 are considered to have an adequate sample size from which to determine a representative annual mean. For those stations reporting fewer than the required number of samples, the reported arithmetic or geometric mean cannot be considered as representative for the comparison with the annual criterion for sulphur dioxide, soiling index or total suspended particulate matter.

Analyses of Data:

Sulphur Dioxide: (See Table 5)

When fuels containing sulphur are burned or ores containing sulphur are smelted, the sulphur joins with the oxygen in the air to form sulphur oxides. Sulphur dioxide (SO_2) is the major sulphur oxide produced in these processes. It is a heavy, pungent, colourless gas which easily combines with water vapour to form sulphurous acid (H_2SO_3) or with oxygen to form sulphur trioxide (SO_3). Both sulphurous acid and sulphur trioxide may further react to form sulphuric acid (H_2SO_4) — a major component of acid rain.

The gaseous sulphur oxides (SO₂ and SO₃) have been associated with human respiratory illness, vegetation damage, and the weathering of materials. In the acid or acid salt form (sulphate or sulphite), the sulphur oxide can ad-

versely affect respiratory health, vegetation or materials, and cause reduction of visibility through the atmosphere. Sulphur oxides also are a major factor in increasing the acidity of precipitation.

Inventoried emissions of sulphur dioxide in 1982 were approximately 1.12 million tonnes, of which 0.46 million tonnes were emitted in the primary smelting of nickel, copper, and iron in the Sudbury and Wawa areas. Thermal generating stations are the largest sources of SO_2 in southern Ontario accounting for 0.45 million tonnes in 1982. The remaining 0.21 million tonnes are emitted by commercial and residential fuel users as well as refineries, coke ovens, and other industrial operations. Note that strikes and shutdowns in the smelting industry lowered the 1982 emission of SO_2 significantly from previous years.

Of the 70 stations in the Ontario network, none recorded an annual mean above the annual criterion of 0.02 ppm. The maximum representative annual average (0.014 ppm) occurred at Barton/Wentworth, Hamilton.)

Most of the stations which exceeded either the 1-hour or the 24-hour criterion on more than one occasion were located in the vicinity of major industrial sources of SO₂. The station measuring the highest 24-hour average (0.25 ppm) was Happy Valley, Falconbridge. The highest 1-hour average (1.78 ppm) was also measured at Happy Valley. Thirty stations reported exceedences of the 1-hour criterion of 0.25 ppm. The most exceedences (58) occurred at both Niagara Falls Rd./Ontario St., Thorold and Happy Valley, Falconbridge. Seven stations exceeded the 24-hour criterion at least once.

Carbon Monoxide: (See Table 6)

Carbon monoxide (CO) is produced during the incomplete combustion of hydrocarbon fuels. In terms of total weight and concentration, it leads all other contaminants in city air. Mobile sources, mainly cars, trucks and buses, are almost exclusively responsible, accounting for over 90% of all CO emissions. Pollutant control equipment on automobiles has been the main method used in reducing CO emissions in Ontario.

When CO is inhaled, it enters the bloodstream through the lungs and binds chemically to hemoglobin, the substance which transports oxygen to the cells of the body. Because CO is bound to the hemoglobin instead of oxygen, less oxygen is available for transport to the muscles and organs. With less oxygen available to the heart, there is a reduction in the amount of blood pumped through the body and therefore the amount of oxygen available to the body is further reduced. In a person with heart disease, the effects of excessive carbon monoxide can be hazardous. Those persons with respiratory disorders such as emphysema may also be severely affected.

The highest concentrations of carbon monoxide were measured at 381 Yonge St. in Toronto. This station, located close to a major traffic artery and within the urban street canyon, measured an annual average of 4.2 ppm, a maximum 8-hour average of 24 ppm and a 1-hour maximum of 34 ppm. The 8-hour criterion of 13 was exceeded 23 times at this station, and the 1-hour criterion of 30 ppm was exceeded 4 times. No other station exceeded the criteria.

Hydrocarbons: (See Tables 7, 8 and 9)

Hydrocarbons are emitted naturally from trees and other vegetation and in the decay of animal and plant material. They are also emitted by motor vehicles, gasoline storage tanks and many industrial sources such as the petroleum and chemical industries. The non-methane fraction of the total hydrocarbons is of special interest because it reacts with the nitrogen oxides in the atmosphere in the presence of sufficient sunlight to form ozone and other oxidant chemical species.

Three types of measurement of hydrocarbons are made in Ontario: methane, reactive (non-methane) hydrocarbons and total hydrocarbons. The instrumentation used employs flame ionization detection techniques to determine the total hydrocarbon concentration as well as the methane concentration and the reactive (non-methane) hydrocarbon concentration in parts/million of carbon.

No criterion have been set for desirable ambient concentrations of total hydrocarbons, reactive hydrocarbons or methane. The highest annual mean for total hydrocarbons was reported at King-Rectory in London: 2.48 ppm. The highest annual mean methane concentration (1.55 ppm) occurred at Nanticoke Rd./Walpole Conc. 5, Nanticoke as did the highest annual reactive hydrocarbon concentration (0.64 ppm).

No monitoring station measured all three types of hydrocarbons over a full year. One short-term survery in the Sarnia area measured all three over a period of 28 days.

Ozone: (See Table 10)

Ozone is a naturally occurring constituent of the upper atmosphere where it plays an important role in the maintenance of life on the ground by absorbing harmful ultraviolet radiation. In the lower atmosphere, ozone is detrimental to the health of man and plants and causes damage to some materials. Unlike most other pollutants, however, ozone is generally not directly emitted into the atmosphere by specific sources. Instead, it is the product of chemical reactions in the presence of adequate sunlight between reactive hydrocarbon compounds and nitrogen oxides.

Ozone is the main constituent of the Los Angeles-type smog which, along with other photochemical oxidants and peroxyacetyl nitrate (PAN), have been associated at high concentrations with adverse effects on human health. Ozone may irritate the lining of the nose and throat and hinder the functioning of the lungs. Many plants, especially some varieties of commercial crops such as white bean and tobacco, may be severely injured or killed by high concentrations of ozone.

Since time is required for the photochemical reactions to produce ozone, the highest concentrations are often found some distance downwind from the source of nitrogen oxides and reactive hydrocarbons. In addition, ozone is capable of travelling long distances through the atmosphere. Thus, ozone formed in the Mississippi or Ohio River Valleys in the United States may reach Ontario. This longrange transport of ozone has become a major area of concern in recent years.

Ozone transport and formation are both very dependent upon large-scale weather conditions, therefore year-to-year average concentrations as well as the number of criterion exceedences may be quite variable. Ozone concentrations are also seasonally dependent with highest concentrations occurring during the late spring and summer. Therefore, annual mean concentrations are of lesser importance than the number of hours the 80 ppb criterion is exceeded. The only stations which did not exceed the 1-hour criterion in 1982 were located in Northern Ontario (Thunder Bay and Mission). Stations reporting more than 100 exceedences of the criterion were located at Long Point Provincial Park (131) and Simcoe (122).

The maximum 1-hour concentration was measured at Centennial Park, Sarnia: 0.132 ppm. The maximum 24-hour 0₃ average was measured at Long Point Provincial Park: 0.080 ppm.

Total Reduced Sulphur: (See Table 11)

Much of the total reduced sulphur (TRS) measured in Ontario is in the form of hydrogen sulphide (H_2S). In the vicinity of pulp and paper mills and refineries, however, significant concentrations of mercaptans and other reduced sulphurs may be present. Reduced sulphur com-

pounds are also released from swamps, bogs and marshes as the result of anaerobic decay processes.

The reduced sulphurs are objectionable because of their unpleasant odour at very low concentrations (often less than 30 ppb). Silver and copper tarnish and lead-based paints blacken in the presence of H₂S.

Maximum concentrations of total reduced sulphur for a 1-year average (12.0 ppb) and 24-hour average (12.9 ppb) were measured at Portage/Church St., Fort Frances. The maximum 1-hour concentration occurred at Holy Trinity Church, Norton/Portage, Chippawa (386 ppb). The majority of stations, most of which monitor near industry, reported maximum concentrations in excess of 60 ppb. No criteria have yet been set for TRS although a guideline of 27 ppb for a 1-hour average has been set for measurements made in the vicinity of Kraft paper mills. All such monitors exceeded the guideline.

Oxides of Nitrogen:

Nitrogen Dioxide (See Table 12)

Nitrogen dioxide (NO₂) is one of a number of nitrogen oxide compounds which are formed both by man and nature. The main natural sources in the lower atmosphere are lightning and soil bacteria. Nitrogen and oxygen from the atmosphere are also combined during high temperature combustion such as occurs in automobile engines, power plants, incinerators and many chemical processes to form nitrogen dioxide.

Nitrogen dioxide in high concentrations may have a detrimental effect on the respiratory system especially to those with chronic lung disease. Nitrogen dioxide may also react with hydrocarbon compounds in the presence of sunlight to form ozone and other photochemical pollutants (See section on Ozone) or react with water to form nitric acid, a component of acidic precipitation, which may affect health and corrode materials.

Nitrogen dioxide was measured at 27 sites in Ontario in 1982. The maximum annual mean NO_2 concentration was 0.034 ppm at Bathurst/Wilson, North York. The maximum 1-hour (0.25 ppm) and 24-hour (0.12 ppm) concentrations were measured at Centennial Park, Sarnia and Bathurst/Wilson, North York respectively. The Sarnia site was the only one to exceed the 1-hour criterion of 0.20 ppm doing so once in 1982. There was one exceedence of the 24-hour criterion of 0.10 ppm which occurred at Bathurst/Wilson, North York.

Nitric Oxide: (See Table 13)

Nitric oxide (NO), like nitrogen dioxide, is formed by natural sources such as lightning and bacteria and by high-temperature combustion of fossil fuels such as automobile engines. In the latter formation, it is nitric oxide which is formed first and, when in high concentration and in the presence of oxygen or hydrocarbons, oxidized further to nitrogen dioxide.

No evidence exists that nitric oxide at the concentrations measured in the ambient atmosphere has any direct adverse effect on health and welfare. However, with its conversion to NO₂, the effects previously mentioned may occur.

Nitric oxide is measured at 27 sites in Ontario. The maximum annual mean concentration of nitric oxide, 0.091 ppm, was measured at Bathurst/Wilson, North York. The maximum 1-hour concentration was recorded at Edna/Frederick St., Kitchener: 0.91 ppm. The maximum 24-hour average of 0.49 ppm was reported at Bathurst/Wilson, North York. Both of these sites are located near a major expressway.

Nitrogen Oxides: (See Table 14)

Nitrogen oxides, the sum of nitrogen dioxide and nitric

oxide concentrations, are measured at 27 sites. The maximum annual concentration of 0.124 ppm occurred at Bathurst/Wilson, North York as was the maximum 24-hour concentration: 0.56 ppm. The maximum 1-hour concentration (0.97 ppm) was reported at Edna/Frederick St., Kitchener.

Suspended Particulate Matter:

Traditionally, air pollution has been identified by the public with black or dark smoke. Improved combustion technology and a switch to cleaner-burning fuels have eliminated most of the sooty particles causing the darkness of the smoke. Suspended particulate matter is still, however, the most visible of air contaminants. The composition varies considerably with time, place and season and may contain soil particles, organic matter or compounds containing sulphur, nitrogen, chlorine or metals such as lead.

Suspended particulate matter or its constituents may cause the corrosion or soiling of materials, a decrease in sunlight or atmospheric visibility, damage to vegetation or adverse effects on human or animal health.

There are many sources of suspended particulate matter, both natural and man-made. Fine particles of dust from combustion, incineration, construction, mining, metals smelting and processing, grinding processes, agriculture and transportation constitute much of man's contribution. Natural sources include wind-blown soil, forest fires, ocean spray and volcanic activity. When the particulate matter is emitted into the atmosphere, most of the larger particles fall to the ground close to their source while the smaller ones may travel distances as great as thousands of kilometres with the wind before settling to the surface. It should be noted, however, that, based on estimates made in the United States, only 5% of the total particulate matter released into the atmosphere comes from controllable sources; the remaining 95% come from natural and fugitive sources.

Suspended particulate matter is measured by either the hi-volume method or the soiling index method in the Ontario network. The hi-volume method collects particles on a glass-fibre filter over a 24-hour period and the sampler is run on a once a day, once every three days or once ever six days sampling cycle. The soiling index method samples on a paper tape for either one or two hours and is run continuously.

Soiling Index: (See Tables 15 and 16)

The soiling index is a relative measure of suspended particulate matter in the size range of particles which most easily enter the lungs. In this method, the soiling properties of the particulate matter deposited upon a paper tape filter are measured by the reduction of light transmitted through the soiled filter. The amount of reduction in transmission is related to the quantity, opacity and darkness of the deposited particles. The evaluation is carried out on either a 1-hour or 2-hour sampling of air. The method of determining the soiling index differs between the 1-hour and 2-hour sampling. The difference is enough to make the distinction in the reported data necessary. The unit of measure for soiling index is the Coefficient of Haze (COH) per 1000 feet of air sampled.

Twenty-two stations reported soiling index for a 1-hour sampling period in 1982. The maximum annual mean was reported at Bathurst/Wilson, North York: 0.60 COH/1000 ft. Three sites, Sherbourne/Wilton, Toronto, Barton-Wentworth, Hamilton and Bathurst/Wilson, North York, exceeded the annual criterion of 0.50 COH/1000 ft.

The maximum 24-hour average (2.3 COH/1000 ft.) was measured at Bathurst/Wilson, North York. Fourteen monitoring sites reported 24-hour averages in excess of th 24-hour criterion of 1.0 COH/1000 ft. but only five did so more than 10 times: Bathurst/Wilson, North York (52), Barton/Wentworth, Hamilton (41), North Park, Hamilton

(23), Sherbourne/Wilton, Toronto (18) and Evans/Arnold, Etobicoke (11).

Twenty-nine stations reported soiling index for 2-hour sampling periods. None exceeded the annual criterion; the maximum annual average reported was 0.31 COH/1000 ft. at Burlington/Leeds, Hamilton. Eleven sites reported exceedences of the 24-hour criterion.

Total Suspended Particulate Matter (See Table 17)

Total suspended particulate matter (TSP) was measured at 161 sites in Ontario in 1982. Daily monitoring was performed at 23 sites, once every three day monitoring at 21 sites and once every six days monitoring at 117 sites.

The maximum annual geometric mean for TSP occurred at the Bonney St. Pumphouse, Sault Ste. Marie: 100 micrograms per cubic meter (ug/m³). The annual criterion of 60 ug/m³ (geometric mean) was exceeded at 27 sites.

The maximum 24 hour concentration was measured at Bonney St. Pumphouse, Sault Ste. Marie: 476 ug m³. One hundred sixteen stations reported exceedences of the daily criterion of 120 ug/m³. The most exceedences at a daily monitoring station were 81 at North Park, Hamilton; at a once in three-day station: 26 at Sherbourne/Wilton, Toronto; at a once in six-day station: 20 at Bonney St. Pumphouse, Sault St. Marie and Burlington/Leeds, Hamilton.

Sulphate in Suspended Particulate Matter: (See Table 18)

Sulphates (SO_4^{-2}) are formed by the oxidation of sulphur trioxide which when combined with water vapour forms sulphuric acid. (H_2SO_4) . The sulphuric acid may then combine with ammonia or some other anion to form a sulphate compound.

Many different sources emit sulphur, or sulphur compounds into the atmosphere. Natural sources of sulphur include sea spray, bacterial decomposition, volcanoes and forest fires. Anthropogenic sources include the burning of fuels containing sulphur (such as coal and oil), the smelting of sulphur-containing metals and the refining of petroleum.

The sulphate compounds, especially the acid forms, have been linked to respiratory irritation and disease, corrosion of materials, reduction of visibility and the formation of acidic precipitation.

Sulphate concentrations reported here are derived from the particulate matter collected on glass-fibre filters. It has been found that artifact sulphates form on glass-fibre filters from ambient SO₂ and that reported sulphate concentrations are therefore artificially high. No attempt has been made to correct the data reported here. Caution should be taken in interpreting absolute concentrations. Relative comparison among samples or stations is likely less affected.

The highest annual arithmetic mean for particulate sulphate concentrations (15.2 micrograms per cubic metre) was reported at Bonney St. Pump House, Sault Ste. Marie. The maximum measured concentration for 24-hours (59.3 ug/m³) was reported at Barton/Wentworth, Hamilton.

Nitrate in Suspended Particulate Matter: (See Table 19)

Nitrogen oxide compounds, formed from atmospheric nitrogen and oxygen under high temperature combustion, photochemical reactions or bacterial action may react with other compounds in the air to form nitrate (NO₃⁻) or nitric acid (HNO₃).

Natural sources of nitrogen oxides or nitrates include lightning, biological agents, sea spray or photochemical reactions. Anthropogenic sources include all high-temperature combustion processes, transportation and fertilizer production and usage. Nitrate and nitric acid are involved in corrosion of materials, visibility degradationand acidic precipitation. They may also be an adverse factor on human health.

Particulate nitrate is collected in the Ontario network on glass-fibre filters. Studies have shown that, like sulphates, artifact nitrates are formed on this filter medium. There remains some uncertainty as to the degree of artifact formation. The data reported herein are unaltered and user caution is recommended in interpreting absolute concentrations.

The maximum annual arithmetic mean concentration of particulate nitrates, 6.1 ug/m³, was reported at Evans/Arnold, Etobicoke. The maximum measured 24-hour concentration was 36.2 ug/m³ at Edna/Frederick St., Kitchener.

Lead in Suspended Particulate Matter: (See Table 20)

Because of its many useful properties, lead has been utilized by man since antiquity. The health hazards of this metal have also been long recognized. The concern over these hazards focused during the 19th and 20th century on death and serious illness caused mainly by the ingestion of lead. With the near elimination of lead poisoning as a cause of death in the past two decades, attention now has turned to the more subtle adverse health effects of exposure to lead such as impairment of mental functions.

Much of the particulate lead emitted into the atmosphere results from the combustion of gasoline containing lead additives. Other sources of lead particles include the secondary smelting of lead, battery manufacture, metal fabrication (brass, bronze and solder), some paint and glass manufacture and the production of iron, steel, copper and nickel. Since 1972, there has been a reduction in the lead content of gasoline. This reduction coupled with the introduction of lead-free gasoline in 1975 has resulted in a decrease in the amount of lead emitted from gasoline usage in Ontario.

The lead concentration on the hi-volume filters is determined by either X-ray fluorescence or atomic absorption spectrophotometry.

Maximum lead concentrations are found in the vicinity of lead processing plants in the Metropolitan Toronto area. These operations have been under special intensive study since 1973. The maximum annual average concentration was measured at 2360 Dixie Road, Mississauga: 2.4 ug/m³. The highest single 24-hour measurement occurred at Tecumseth/Niagara, Toronto: 33.2 ug/m³. The 24-hour criterion of 5.0 ug/m³ was exceeded 94 times across this network. The most exceedences (50) were registered at 2360 Dixie Road, Mississauga.

The maximum concentrations at the stations not near lead processing plants are found at stations monitoring close to major traffic arteries. The maximum annual average concentration was recorded at Bathurst/Wilson, North York (0.9 ug/m³) as was the highest daily measurement (3.6 ug/m³). None of these sites measured lead concentrations in excess of the 5.0 ug/m³ criterion.

Iron in Suspended Particulate Matter: (See Table 21)

Iron particles are among the most abundant of the heavy metals emitted into the air. Major sources include iron ore processing, steel manufacturing, incineration, coal burning, smelting of other metals and road dust. Iron is also released as a result of the weathering of iron steel materials such as the rusting of automobiles. Natural sources of iron particles include volcanoes and terrestrial dust from the weathering of rocks and soil.

The analysis of the iron content of particulate is performed by atomic absorption spectrophotometry (AA) or induced coupled plasma techniques (ICP).

The maximum annual arithmetic mean for particulate occurred at Burlington/Leeds, Hamilton: 7.1 ug/m³. The maximum 24-hour concentration was measured at the Nickel Street Pumphouse, Copper Cliff: 51.5 ug/m³.

Nickel in Suspended Particulate Matter: (See Table 22)

The maximum 24-hour concentration for nickel occurred at Davis/Frazer, Port Colborne: 3.050 ug/m³. This station was the only one to exceed the criterion of 1.5 ug/m³ doing so 3 times in 1982. The highest annual arithmetic mean was also found at Davis/Frazer, Port Colborne: 0.258 ug/m³.

Copper in Suspended Particulate Matter: (See Table 23)

The 95 Inkerman St., Guelph monitor recorded the highest annual average concentration of particulate copper in 1982 (0.76 ug/m³). The highest 24-hour concentration was 6.08 ug/m³ collected at Centennial Park, Sarnia, well below the Ontario criterion of 50.0 ug/m³.

Recent studies have shown that copper measurements may be affected by contamination of the sample by the motor on the sampling device. This contamination is highest when a new motor is installed and decreases with motor age. No attempt has been made to correct the data for this effect.

Cadmium in Suspended Particulate Matter: (See Table 24)

The maximum 24-hour concentration, 0.175 ug/m³, was measured at 3050 Lakeshore Blvd., Etobicoke, as was the maximum annual average: 0.009 ug/m³. The criterion of 2.0 ug/m³ for a 24-hour average was not exceeded.

Chromium in Suspended Particulate Matter: (See Table 25)

The 633 Eastern Ave., Toronto monitor recorded the highest annual average chromium concentration in 1981: 0.024 ug/m³. The highest 24-hour measurement in the Province, 0.429 ug/m³, was at 3050 Lakeshore Blvd. West, Etobicoke. The criterion of 1.5 ug/m³ for a 24-hour average was not exceeded.

Zinc in Suspended Particulate Matter: (See Table 26)

Maximum zinc concentrations were recorded at Burlington/Wellington, Hamilton for the annual average (0.6 ug/m³) and Burlington/Leeds, Hamilton for the 24-hour average (1.7 ug/m³).

Manganese in Suspended Particulate Matter: (See Table 27)

The maximum manganese concentrations for a 1-year average (0.470 ug/m³) and 24-hour average (7.707 ug/m³) were both recorded at Bonney St. Pumphouse, Sault Ste. Marie. The 24-hour criterion was not exceeded.

Vanadium in Suspended Particulate Matter: (See Table 28)

The highest annual average concentration for particulate vanadium, 0.019 ug/m³, occurred at Centennial Park, Sarnia. The 24-hour maximum of 0.180 ug/m³was reported at the Science Centre, North York. No exceedences of the 2.0 ug/m³, 24-hour average criterion was measured in 1982.

Ontario's Air Pollution Index (See Tables 29 and 30)

Despite the best efforts of pollution control, the emission of contaminants into the air cannot be totally eliminated without bringing all man's activities to a halt. Whenever pollutants are released to the atmosphere, the potential exists for the buildup of concentrations to unacceptable levels during weather conditions which are unsuitable to their dispersion or removal (e.g. light winds, limited vertical mixing depth). Since it is economically unrealistic, and often impossible, to control emissions so that under *no* circumstances will pollution concentrations approach critical levels, there is a need for an alert system to warn of increasing pollution concentrations.

The Air Pollution Index (API) was introduced in Ontario in 1970 to protect the public from air pollution episodes caused by emissions under adverse weather conditions. Two pollutants, sulphur dioxide and suspended particulate matter, were chosen for the Index based upon the results of health studies during severe air pollution episodes. These studies showed a definite correlation between illness and high concentrations of SO₂ and TSP. The API was thus devised as a basis for action in an alert system to control or prevent an air pollution episode caused by these two pollutants. Legislation in Ontario authorizes the Minister of the Environment to order any source not essential to public health and safety to curtail or cease its operations when pollutant concentrations which may be injurious to health are reached.

The Ontario API is calculated from the average SO₂ concentration and average soiling index for the preceding 24 hours. Hourly concentrations of these pollutants are measured in each city where an Index is reported and sent via the Ontario Air Quality Telemetry Network to the Air Resources Branch office in Toronto. There, a computer calculates the 24-hour averages and the resulting API which is released to the public. Whenever the API reaches critical levels, the Duty Meteorologist is informed, and based upon his forecast of continuing adverse weather conditions, action may then be taken by Regional Abatement Officers.

If the API reaches 32, and the Duty Meteorologist forecasts a continuation of adverse weather conditions for the next six hours, an "Air Pollution Advisory" is issued. At this time, significant sources of SO_2 and particulate matter are advised to curtail operations.

The "First Alert" level occurs at an API of 50 with meteorological conditions expected to continue for at least six hours. Major sources may be ordered by the Minister to curtail operations.

If abatement action does not succeed in stopping the rise in API, or if weather conditions worsen, a "Second Alert" is issued at 75. With a forecast of continued adverse weather, the Minister may order further curtailment.

At 100, an "Air Pollution Episode Alert" is issued and, again with a forecast of six hours of adverse weather conditions, all non-essential sources may be ordered to shut down their operations by the Minister. At this level, the pollution concentrations may have an effect on healthy individuals and may seriously endanger the health of those with severe cardiac or respiratory disease.

The Air Pollution Index Alert System was first introduced in Toronto on March 23, 1970. Since that time it has expanded to other Ontario cities: Hamilton in June 1970, Sudbury in January 1971. Windsor in March 1971, Happy Valley in May 1971, Welland in January 1974, Niagara Falls in November 1974, Coniston in February 1975, New Sudbury in March 1976, Sarnia in December 1977 and St. Catharines in September 1979. The Happy Valley API was terminated in January 1975, and the Welland API was terminated in October 1978.

The maximum recorded API in the Province in 1982 occurred on October 27 in Toronto when an Index of 54 was reached. Toronto was the only city to exceed 50, doing so twice in 1982. The Advisory Level of 32 was reached on 12 occasions in Hamilton, 3 in Toronto, and once each in Windsor and Coniston.

An API of 15 or less is considered as "Very Good" air quality: 16-31 is considered "Good": 32-49 is considered "Moderate": 50-99 is "Poor" air quality and 100 or greater is "Very Poor". A summary of the number of hours in each of these categories is given in Table 29. The majority of hours are in the "Very Good" designation for all locations.

The history of the Index stations – the maximum level and the number of times the Index has equalled or exceeded 32 and 50 for the years 1970 to 1982 are given in Table 30.

Meteorological Data

Wind Speed (See Table 31)

The annual summary of wind speed measurements taken at 22 sites in Ontario is given in Table 31. Eight of the sites measure wind speed at two or three levels.

These wind monitors are installed to have the best possible exposure practical at the given site. There are instances, however, where monitor siting may not fully conform to recommended siting criteria set forth by international or federal meteorological bodies such as the World Meteorological Organization or the Canadian Atmospheric Environment Service. Care should be taken in extrapolating data to areas away from the monitoring site.

Wind Direction: (See Table 32)

The annual frequency distribution for wind direction is given for the 22-site Ontario monitoring network. Each wind direction sensor has a corresponding wind speed sensor (see Table 31). Comments on the siting and exposure of wind direction sensors are the same as those for wind speed given above.

The wind direction data are partitioned into an eightpoint compass, North, Northeast, East, Southeast, South, Southwest, West and Northwest. No direction is defined during periods when the wind speed is less than 5.0 kilometers per hour. These are reported as hours of calm conditions. The frequency of "Calm" conditions is also given in Table 32.

Ambient Air Temperature: (See Table 33)

Eight sites in the Ontario network measure ambient air temperature at the lowest level of the tower. Data are reported for annual minimum, maximum and mean and the number of hours occurring in each of seven temperature ranges.

Vertical Temperature Differences: (See Tables 34 and 35)

The vertical temperature difference between the lowest level of each of the eight monitoring towers and either the mid level (Level 2 - Level 1) or upper level (Level 3 -Level 1) are given in Tables 34 and 35 respectively. The number of hours occurring in each of 7 or 8 categories are reported along with the annual mean difference. The temperature difference when divided by the distance between the two temperature sensor (the column labeled 'Height Difference') provides an approximate measurement of the thermal stability of the atmosphere termed the temperature gradient. A temperature gradient of less than -0.017 Celsius degrees per meter is indicative of an unstable atmosphere, a condition generally conducive to rapid mixing and dilution of pollutants in the air. Values between -0.017 and 0.015 Celsius degrees per meter are indicative of a neutrally stable atmosphere, a state conducive to moderate mixing and dilution. Temperature gradients greater than 0.015 Celsius degrees per meter characterize a stable atmosphere, a state associated with poor mixing and diffusion. Positive temperature gradients which reflect an atmospheric state in which air temperature increase with height (warm air over cold air) is commonly referred to as a temperature inversion, or, simply, an inversion.

Table 1 Stations with Continuous Sampling Instrumentation (Pollutant data abstracted hourly or two-hourly)

			SUR-		SITE ELE- VATION ABOVE MEAN SEA	AIR INTAKE ABOVE							
REGION	STATION NUMBER	NAME OF STATION	VEY TYPE	UTM GRID EAST NORTH	LEVEL	GROUND (METRES)	TRS	SO ₂	СОН	POLLUTA O ₃	ANT MOI	HC	NO.
			11172	LAST NORTH	(METRES)	(METRES)	ins	302	CON	03		110	110
SOUTH VEST	10001	College of Agric. Tech., Huron Park	Α	04600 47931	243	5				×			
	12008	467 University Ave. W. Windsor	Α	03316 46867	183	11		×	×	×	X	X	X
	12013	3665 Wyandotte St.							538	556	5.5	5/5	503
	12016	Windsor College-South St.	Α	03358 46874	183	6		X					
	12032	Windsor Morton Dock	Α	03290 46841	183	4		×	×				
		Windsor	Α	03271 46817	177	4	X	X					
	13021	MOE Pump. Stn. Middle Road, Merlin	Α	03991 46776	190	3				X			
	14004	Hydro SS, Concession 14/15, Courtright	Α	03808 47343	183	3		X					
	14016	Lambton G.S.											
	14062	Hwy. 40, Courtright 242 Indian Rd. S.,	Α	03793 47397	180	4		X					
	14064	Sarnia Centennial Park.	Α	03878 47578	183	4	X	X					
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Front St. CN Tracks,	•	00054 47500	100			v	v	v	v	v	v
	14118	Sarnia PUC Water Pump Stn.	Α	03854 47592	182	3		×	×	X	×	×	×
	14903	Hwy. 21, Petrolia Virgil LaSalle	Α	04027 47564	206	4				X			
		Froomfield, Corunna	Α	03814 47520	193	3						×	
	15001	King-Rectory London	Α	04818 47595	259	4		X	X	X	X	X	Х
	15003	362 Dundas St. London	AN	04801 47590	251	17			X				
	18007	Concession Rd. 2					v	v	fait.	v			
		Lot A, Tiverton	А	04541 49053	192	4	×	Х		X			
EST ENTRAL	22071	Experimental Farm Simcoe	Α	05597 47449	236	4		X	X	X			×
	22086	Cheapside Rd.			200	***		5.0	5.00	531			
		3 Km S of Hwy. 3 Nanticoke	S	05821 47472	206	5		×	×				×
	26029	Edna/Frederick St. Kitchener	Α	05427 48116	325	5		X	x	×	×		×
	27037	North/Geneva St.										v	
	27042	St. Catharines Niagara Falls Rd./	Α	06431 47805	107	5		×	×	×	X	X	×
	27046	Ontario St., Thorold Public Works, 200 m	S	06469 47739	175	5		X					
		S Beaverdam Rd.		00100 17710	100	-		v					
	27048	Thorold Niagara Public Works	S	06460 47742	180	5		×					
	27049	Dominion Rd., Fort Erie Murray/Buchanan Ave.	Α	06670 47500	175	2		X					
		Niagara Falls	Α	06561 47716	195	5		X	×				
	27051	Holy Trinity Church Norton/Portage, Chippawa	SN	06580 47694	185	16	X	X	X				
	28025	Farquhar/Wyndham St. Guelph	Α	05609 48213	320	4		X	×				
	29001	Hughson-Main						150					
	29008	Hamilton North Park	Α	05918 47894	99	9			Х				
	29009	Hamilton Kenilworth	S	05984 47927	79	3	X	×	×			×	X
		Hamilton	Α	05967 47884	92	9			X				
	29011	Burlington/Leeds Hamilton	S	05954 47905	79	5			×				
	29012	Burlington/Wellington Hamilton	S	05931 47914	84	4			x				
	29015	Merrick St.											
	29017	Hamilton Chatham-Frid	AN	05917 47900	92	17			X				
	29025	Hamilton Barton-Wentworth	Α	05898 47896	99	5			X				
		Hamilton	S	05939 47900	92	4	X	×	×	×	×		X
	29067	450 Hughson St. Hamilton	Α	05925 47913	84	5			X				
ENTRAL	31049	Mission, 381 Yonge											
		Street, Toronto	Α	06304 48351	91	4					X		
	31104	26 Breadalbane Toronto API	AN	06302 48356	104	15		X	Х	X	X	X	х
	31105	Sherbourne/Wilton Toronto	Α	06317 48338	76	5		×	×	×	×		×
		Toronto	•	00017 40000	- 9 -	3		^	^	^	^		^

Table 1 — Continued . . .

			SUR-		SITE ELE- VATION ABOVE MEAN SEA	AIR INTAKE ABOVE							
	STATION		VEY	UTM GRID	LEVEL	GROUND				POLLUT	ANT MO	NITORED	j
REGION	NUMBER	NAME OF STATION	TYPE	EAST NORTH	(METRES)	(METRES)	TRS	SO ₂	СОН	03	со	НС	NO,
CENTRAL	31120	Junction Triangle	2007			20		- Securi			18.0		
	33003	Perth Ave., Toronto Lawrence-Kennedy	Α	06248 48344	113	9		X	X	X	X		X
		Scarborough	Α	06389 48452	168	3		X	×	×	X	X	X
	33019	Met. Branch, Scar. Bluffs, Scarborough	Α	06422 48411	152	3		х	X				
	34002	Science Centre											
	34007	Don Mills Rd., North York Bathurst-Wilson	Α	06338 48419	107	9		X	Х	X	X	Х	X
		North York	Α	06261 48437	214	2		X	X		X	X	X
	35003	Elmcrest Rd. Etobicoke	А	06142 48338	152	4		Х	Х	х	X	X	х
	35005	Queensway Hospital									28		.23
	35008	Etobicoke 22-36th St.	Α	06149 48293	107	9		X	X				
		Etobicoke	Α	06190 48281	92	2			X				
	35033	Evans-Arnold Etobicoke	Α	06192 48302	107	3		Х	X	х	X	×	X
	35050	MOE Lab, Resources		00132 40302						^	^	^	^
	44008	Road, Etobicoke Hwy.2 / North Shore	AN	06175 48405	152	18		X	X				
	44000	Blvd. E., Burlington	AN	05972 47964	270	17		X	X	X			Х
	44015	Bronte Rd. Woburn Cres. Oakville	Α	06031 48059	91	5	×	Х	×	×	X	×	X
	45024	206 Eulalie St.	::01	00031 48039	51	3	•	^	^	^	^	^	^
	45025	Oshawa Ritson Rd. Olive Ave.	S	06723 48623	101	1			X				
	43023	Oshawa	Α	06724 48624	107	4		X	×	×	X		×
	46025	Public Library		06115 40057	137	5			X				
	46033	Mississauga Fire Hall	Α	06115 48257	137	5			^				
	46100	Bramalea Public School, Green	Α	06053 48398	198	4			X				
	46100	Glade Rd., Mississauga	SN	06124 48187	92	11		X	X				
	46110	Queensway West/Huron- tario St., Mississauga	٨	06122 48249	101	5		х	X	X	х		Х
	47035	M. of A., 509 Victoria	Α	06122 46249	101	5		^	^	^	^		^
	48002	St. E., Alliston MTC Yard, Hwy. 47	Α	05918 48898	183	4				×			
		Stouffville	Α	06391 48694	259	4		X	X	×			
	49010	Hwy. 117/Paint Lake Rd. Dorset	Α	06624 50096	323	3				X			
	59006	City Hall, 500 George St.								200			
		Peterborough	AN	07137 49095	198	18		X	X				
SOUTH	51001	McDonald Gdns.	-		worren.			100.00		10000	2000		
EAST	51038	Ottawa General Hospital	Α	04471 50312	61	4		X	X	X	X		X
		342 McGill, Hawkesbury	SN	05300 50535	46	15		×					
	56051	Memorial Park Cornwall	Α	05208 49846	61	4	X	×	X	Х	X		X
	56068	435 Second St. W.											
		Cornwall	S	05205 49845	66	6	×						
NORTH	61010	Lassie Dickenson Roads											
WEST	61014	Balmertown Sewage Treatment Plant	Α	04480 56670	381	3		X					
		Balmertown	Α	04482 56561	370	6		X					
	61026	56 King St. Dryden	Α	05117 55140	366	5	X						
	62030	Portage Church											
	62032	Fort Frances Cemetery, Colonization	Α	04708 53838	336	4	×						
		Road, Fort Frances	Α	04697 53841	336	5	X						
	62051	Boise Cascade, Victoria Avenue, Fort Frances	Α	04710 53835	338	5	×						
	62052	262 Church St.											
	63022	Fort Frances Hospital, 35 Algoma St. N.	Α	04708 53839	340	8	X						
		Thunder Bay	AN	03356 53672	223	22		X	×	×			
	63034	Peninsula Bldg. Marathon	AN	05453 53960	215	12	×						
	63040	435 James St.						72.0	860				
	63046	Thunder Bay Montreal St.	AN	03302 53607	189	15		Х	X				
		Thunder Bay	SN	03298 53584	191	15	X						
	63084	Recreation Centre Red Rock	Α	04080 54216	190	7	×						
	63090	St. Martin School											
		Terrace Bay	Α	04927 54034	275	8	X						
					4.0								

Table 1 — Continued . . .

REGION	STATION NUMBER	NAME OF STATION	SUR- VEY	UTM GRID EAST NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL	AIR INTAKE ABOVE GROUND	TDE	- 60	604	POLLUT			
HEGION	NUMBER	NAME OF STATION	TTPE	EAST NORTH	(METRES)	(METRES)	TRS	SO ₂	СОН	O ₃	со	нс	NOx
NORTH	71049	Land Reg. Office											
EAST		Queen St., Sault Ste. Marie	Α	07047 51543	182	6		X		X			
	71057	Michipicoten Ave.											
	71050	Lot 38, Town of Mission	S	06625 53110	198	4		X		X			
	71058	Sir James Dunn Public School, Wawa	SN	06663 53180	303	10		X					
	71059	Carl M. Beck	SIV	00003 33100	303	10		^					
	, 1000	Public School, Wawa	S	06661 53181	243	10		×					
	71064	30 Birch St.						-					
		Wawa	S	06655 53185	305	10		X					
	72063	Municipal Garage											
		Smooth Rock Falls	S	04537 54586	231	10	X						
	75010	OPP Station		121.20.01.00	50.5								
	77000	North Bay	Α	06197 53105	212	4		X					
	77009	Burwash		05114 51000	207	//6		.,					
	77010	Sudbury Airshed Callum	Α	05144 51228	227	3		×					
	77010	Sudbury Airshed	Α	05270 51525	275	3		×					
	77012	Skead	200	00270 01020	2,5			^					
	11511/07/07	Sudbury Airshed	Α	05186 51678	272	3		×					
	77013	Hanmer											
		Sudbury Airshed	Α	05041 51663	288	3		X					
	77014	Rayside											
		Sudbury Airshed	Α	04934 51615	275	3		×					
	77016	Ash Street Water Tank		04004 54400	200			***	**	*20	**		***
	77018	Sudbury St. Charles	Α	04994 51486	290	3		×	×	X	×		×
	77016	Sudbury Airshed	Α	05449 51343	227	3		×					
	77023	Happy Valley		00449 01040	221	3		^					
		Falconbridge	Α	05146 51564	288	5		X					
	77028	Government/Edward											
		Coniston	Α	05118 51480	242	5		×	×				
	77065	Falconbridge Rd.,											
	77000	Garson, Sudbury District	Α	05109 51559	288	5		X					
	77066	Temagami Sudbury Airshed	Α	05704 52022	204	•		v					
	77075	Kennedy St.	А	05704 52022	294	5		X					
	77075	New Sudbury	Α	05044 51520	261	5		×	×				
	77092	Laurent Hosp., 41 Ramsey	A	00011 01020	201			-	24				
		Lake Rd., Sudbury	AN	05004 51459	259	12		×					
	77096	Long Lake Rd.											
	2000270-0	Sudbury, Villa Loyola	Α	04992 51387	275	4		×					
	77201	Mikkola, J. Hamilton School	102	20020031 23 222	535	92		2777					
		Walden Town	Α	04915 51405	229	5		×					
NEMP	22901	100 M S. Hwy. 59											
IAC.	22501	Long Point Prov. Pk.	Α	05502 47138	174	4		×	×	×	×		×
	22902	Tyneside/Chippewa Rd.	****	00002 17 100	(1807)	1000			237	24	24		^
		Binbrook West	Α	05914 47746	213	5		×	×	X	×		×
	22903	Cheapside Rd./Walpole											
	1 <u>0100</u> 00-000	Conc. 5, Nanticoke	Α	05821 47472	206	4	X					X	
	22904	Walpole South PS	2	namena ang makasa sa	122	8	207					2601	
	22005	Sandusk Rd., Nanticoke	Α	05794 47434	198	4	×					X	
	22905	Nanticoke Rd./Walpole Conc. 5. Nanticoke	^	0E744 47450	100	70 4 0	~						
	22906	Sandusk Rd. Btwn, Walpole	Α	05744 47456	198	4	X					X	
	22300	Conc. 4/5, Sandusk	AN	05787 47458	649	12							X
	22907	Nanticoke Village	500.50	33.07 47430	0.10								557

Survey Type:

A - Ambient survey for general air quality
S - Source-specific survey
N - Station does not conform to Canadian Federal Provincial siting criteria

Table 2 Stations with Hi-Volume Sampling for Suspended Particulate Matter (Pollutant data collected for 24-hour period)

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE	COORD UTM EAST		SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TSP	ANALYSES METALS	SO ₄ ⁻² NO ₃ ⁻
SOUTH WEST	10015	PUC Bldg., 64 West St., Goderich	A6	04425	48434	213	6	х		
WEST	11001	35 Thomas St.					3	×		
	12002	St. Marys City Hall.	A6	04879	47884	305			200	1000
	12005	44 Windsor Ave., Windsor 7730 Riverside Dr. W.	AN6	03323	46867	183	17	X	X	X
	12008	Windsor 467 University Ave. W.	A6	03395	46890	174	7	×	X	X
	12009	Windsor 9725 Riverside Dr. E	A1	03316	46867	183	9	×	X	X
		Little River	A6	03413	46888	180	2	X	X	X
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	A6	03460	46875	180	1	×	×	×
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	A6	03358	46874	183	8	x	x	X
	12014	University Met. Stn. College Calif. St., Windsor	A6	03304	46849	183	3	х	×	×
	12015	Sewage Plant Hwy 18 Prospect, Windsor		03283	46833	175	6	X	×	×
	12016	College South St.	A 6						^	^
	12032	Windsor Morton Dock	A6	03290	46841	183	4	X		
	12036	Bedford Ojibway, Windsor 1802 George St.	A 6	03271	46817	175	4	×	X	×
	12037	Windsor 3225 California St.	A6	03367	46858	186	5	X		
		Windsor	A6	03327	46816	183	5	×		
	12039	Dougall E.C. Rowe W. Windsor	A6	03337	46821	195	5	x		
	12053	415 Front St. Amherstburg	A6	03253	46657	187	10	×		
	13003	Post Office 10 Center St., Chatham	AN6	04024	46952	156	12	X	X	×
	13023	R.R. #1 Behind the Barn, Blenheim	A6	04138	46838	198	1	X	×	×
	13024	Jackson Farm								
	13025	Blenheim R.R. #2	A 6	04127	46840	198	4	X	X	x
	14001	Behind the Barn, Merlin General Hospital	A6	04120	46486	198	1	X	X	×
	14016	220 Minton St., Sarnia Opposite Lambton GS	AN6	03860	47587	183	17	×	X	X
	14030	Hwy 40. Courtright R.R. #1, West	A6 1	03793	47397	183	1	×	×	X
		of the House, Corunna	A6	03939	47486	200	7	×	×	X
	14031	R.R. #1, West Side of Barn, Mooretown	A6	03938	47461	200	1	×	×	×
	14054	Sarnia Yacht Club Port Edward, Sarnia	A6	03846	47617	181	5	×	x	X
	14059	St. Clair Blvd Hwy 40 Corunna	AN6	03813	47481	192	4	×		
	14062	242 Indian Rd. S Sarnia	A6	03878	47578	183	4	×		
	14064	Centennial Park								
		Front St CN Tracks, Sarnia St, Clair River	A 6	03854	47596	192	4	×	X	X
	14151	David/Front St., Sarnia	A 6	03852	47588	182	4	×		×
	15001	Western Fair Grounds King Rectory, London	A6	04818	47595	259	4	×	×	×
	15003	362 Dundas St. London	AN6	04801	47590	277	17	×	X	X
	15006	16 Alexandria St. St. Thomas	S6	04856	47361	229	4	X		
	15007	Fern Ford, 1012 Talbot St.								
	15008	St. Thomas Edgeware Rd., NNW of	S6	04857	47360	229	9	X	126	
	17006	Varta Plant, St. Thomas St. Anthony's SS	S6	04876	47379	245	2	×	×	
	17019	Hwy 2, Beachville 1401 Parkinson E	S6	05132	47696	302	5	X		
	17020	Woodstock Spriel, Hwy 2	SN6	05238	47747	305	12	×	×	
	22031	RR #2, Ingersoll Selkirk	S6 A6	05118 05871	47675 47432	300 183	2	×		
WEST					47383	190	4	×		
WILE S. I	22056	Port Dover	AN6	05641	4/383	190	4	^		

Table 2 — Continued . . .

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE		DINATES GRID NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TSP	ANALYSE METALS	S SO ₄ ⁻² NO ₃ ⁻
WEST	22071	Experimental Farm	Datter	No. of the Control	* ACCEDYS I MARK	narrans i	18	200	V202	2000
CENTRAL	22086	Simcoe Cheapside Rd., 3 km S.	A6	05597	47449	236	1	X	Х	Х
	22087	of Hwy 3. Nanticoke Jarvis Community Centre	A6	05821	47472	206	1	×		X
		James Street, Jarvis	A6	05724	47481	180	4	×		
	26029	Edna Frederick St. Kitchener	A6	05427	48116	325	4	×	X	Х
	26035	Uniroyal 149 Strange St., Kitchener	S6	05396	48109	335	6	×		
	27008	71 King St. St. Catharines	A6	06425	47797	108	12	×	×	×
	27009	Norton Portage							^	~~
	27014	Chippawa Stanley Chippawa Pkwy	S6	06581	47693	183	4	×		
	27030	Chippawa Killaly E James	AN6	06562	47679	206	4	×		
	27037	Port Colborne North Geneva St.	S6	06444	47501	180	5	×	×	
		St. Catharines	A6	06431	47805	106	5	×	X	X
	27045	337 Alberta at Devon St., Welland	S6	06433	47587	180	1	×		
	27047	Davis Frazer Port Colborne	S6	06435	47497	180	3	X	X	
	27049	Murray Buchanan Ave Niagara Falls								v
	27050	4057 Victoria Ave.	AN6	06561	47716	195	5	X	X	X
	27052	Niagara Falls 185 Queen St. S.	S6	06567	47752	175	4	×		
	27053	Thorold First Ave. Bridge St.	S6	06460	47749	180	1	×		
		Niagara Falls STP Grounds	S6	06566	47745	180	t	×		
	27055	Stanley Ave., Niagara Falls	S6	06559	47763	185	4	×		
	28024	95 Inkerman St Guelph	SN6	05597	48203	330	9	×	х	
	28025	Farquhar Wyndham St. Guelph	A6	05609	48213	320	9	x	×	×
	28027	Hanlon Expwy Speed River, Guelph		05594	48190		6	×	262	
	29001	Hughson Hunter	S6			300				
	29007	Hamilton City Hall	AN6	05918	47894	99	9	X	X	X
	29008	Hamilton North Park	AN6	05914	47895	107	46	×		
	29009	Hamilton Kenilworth	SN1	05984	47927	79	4	×	X	X
	(ATT (100, 100, 100, 100, 100, 100, 100, 100	Hamilton	AN6	05967	47884	91	5	×		
	29011	Burlington Leeds Hamilton	S6	05954	47905	79	5	×	x	×
	29012	Burlington Wellington Hamilton	AN6	05931	47914	84	7	×	×	×
	29017	Chatham Frid			100 St. 20 t.					
	29025	Hamilton Barton Wentworth	A6	05898	47896	99	5	X	×	X
	29067	Hamilton 450 Hughson St. N	SN1	05939	47900	91	4	×	×	X
	29085	Hamilton Upper Wellington	AN6	05925	47913	84	5	×	X	X
	29087	Inverness, Hamilton 405 Cumberland Ave.	A6	05921	47880	195	5	×	X	X
		Hamilton	A6	05946	47882	95	4	×		x
	29089	Barton Nash Hamilton	A6	06000	47879	85	6	×		
	29090	Westdale Library Hamilton	A6	05890	47903	100	5	x		
CENTRAL	04040			03030	47303	100		^		
CENTRAL	31018	35 Bathurst St. Toronto	S1	06289	48332	84	6	X	×	
	31058	Mosley Leslie St. Toronto	SN1	06346	48353	76	5	Х	×	
	31064	17 Berkshire Ave. Toronto	SN1	06345	48353	77	1	×		
	31065	633 Eastern Ave							×	
	31079	Toronto Fire Hall	SN1	06344	48351	79	12	Х	×	
		1285 Dufferin St., Toronto	AN1	06259	48359	122	10	×	×	

Table 2 — Continued . . .

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE		DINATES GRID NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TSP	ANALYSES METALS	SO ₄ ⁻² /NO ₃ ⁻
CENTRAL	31082	Works Dept.	214	20005	10051		520		6	
	31084	138 Hamilton Ave., Toronto Maydwell Mfg.	SN1	06325	48354	91	4	X	×	
	31085	65 Saulter St., Toronto Tecumseth Niagara St.	S1	06333	48351	85	6	X	X	
	31104	Toronto 26 Breadalbane	S1	06287	48330	84	6	X	X	
	31105	Toronto Sherbourne/Wilton St.	AN1	06302	48356	104	12	X	X	X
	31120	Toronto Junction Triangle	AN3	06317	48338	76	5	X	X	X
	33003	Perth Ave., Toronto Lawrence/Kennedy	SN3	06248	48344	116	11	×	×	×
		Scarborough	A3	06389	48451	160	1	X	X	X
	33019	Met. Branch, Scarborough Bluffs, Scarborough	А3	06422	48411	152	1	x	x	×
	34002	Science Centre 770 Don Mills Rd., North York	А3	06338	48419	107	8	×	X	X
	34007	Bathurst/Wilson North York	А3	06259	48435	183	7	×	×	×
	35003	Elmcrest Rd. Etobicoke	А3	06142	48338	152	1	X	X	x
	35005	Queensway Hospital Etobicoke	AN3	06159	48293	107	15	×	A2	×
	35033	Evans Arnold Ave							v	
	35037	Etobicoke 3050 Lakeshore Blvd. W.	A3	06192	48302	107	1	X	×	X
	35050	Etobicoke MOE Lab	A1	06201	48285	88	6	Х	X	X
	35051	Resources Rd., Etobicoke Radiation Lab.	AN3	06175	48405	152	20	×		
	44008	Resources Rd., Etobicoke Hwy. 2/North Shore Blvd. E.	AN1	06175	48403	146	115	Х		
	44015	Burlington Bronte Rd. Woburn Cres.	А3	05972	47964	270	4	×	×	
		Oakville	S3	06031	48059	91	1	×	×	×
	45001	Pickering Fire Hall Pickering	S1	06551	48548	91	1	x	×	×
	45003	McDonald PS Pickering	S1	06554	48538	91	7	×		
	45005	Frenchman's Bay Sewage Pickering	S1	06543	48526	76	1	×		
	45006	Lakeshore Park Sewage Pickering	S1	06602	48538	81	1	×		
	45007	Ajax-Pickering Hospital Pickering	SN1	06596	48555	91	17	X		
	45008	Duffering Creek Sewage Plant	S1	06565	48533	91	3	X		
	45011	Pickering Public Library							v	v
	45025	Oshawa Ritson Rd. Olive Ave.	AN6	06714	48623	114	13	×	×	×
	46025	Oshawa Mississauga Public Library	A 3	06727	48618	104	5	×	×	×
	46033	Mississauga Bramalea Fire Hall	A6	06115	48257	137	7	X	×	×
	46045	Bramalea 2365 Dixie Rd.	A6	06053	48398	198	5	×	×	×
	46046	Mississauga 2360 Dixie Rd.	S1	06148	48288	113	7	×	×	
	46110	Mississauga Queensway W. Hurontario St.	S1	06147	48286	111	14	×	×	
		Mississauga	А3	06122	48249	101	1	×	×	×
	47019	Post Office 17-25 Peter St. N., Orillia	A6	06255	49406	229	12	X		×
	47042	Armoury Bldg. Park Parkside St., Barrie	A 3	06038	49157	229	12	×	×	×
	48002	MTC Yard #9, Hwy 47 Stouffville	A6	06391	48694	259	1	X		
	58027	51 Shuter St. Port Hope	S1	07177	48694	84	5	X		×
	58028	2 Choate St. Port Hope	S1	07168	48689	94	5	×		×
	58029	66 Queen St.								
	59006	Port Hope City Hall	S1	07172	48695	91	5	X	WG	×
		500 George St., Peterborough	AN3	07137	49095	198	15	X	×	X

Table 2 — Continued . . .

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE		DINATES GRID NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TSP	ANALYSES METALS	SO ₄ ⁻² /NO ₃ ⁻
SOUTH	51001	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa	A6	04471	50312	84	4	x	×	x
	51018	55 Queen St. Ottawa	A6	04454	50299	84	30	x		x
	52017	106 Clarence St. Kingston	AN6	03815	48984	82	12	x	x	×
	54013	Post Office Bldg.								
	56006	Belleville 4 Montreal Rd.	A6	03095	48926	98	8	X	×	×
	56051	Cornwall Memorial Park	A6	05223	49848	59	9	X		×
NORTH	62013	York/3rd St., Cornwall Weather Station	A6	05208	49846	53	4	×		
WEST	62030	Atikokan Portage/Church St.	A6	06030	54008	366	1	×		
	62032	Fort Frances Cemetery, Colonization Rd. W.	S6	04708	53838	335	4	×		
		Fort Frances	A6	04697	53841	335	5	×		
	63005	Hospital, Archibald Arthur, Thunder Bay	AN6	03335	53608	190	24	×	x	×
	63012	Dawson Ct. Algoma St. N. Thunder Bay	A6	03372	53686	213	9	×		
	63022	Hospital, 35 Algoma St. N. Thunder Bay	AN6	03356	53672	222	22	×	x	x
	63040	435 James St. S. Thunder Bay	A6	03302	53607	189	15	×	×	×
	63046	Can Car Bldg., Montreal St., Thunder Bay	S6	03298	53584	190	15	×	^	
	63052	Trnst. Maint. Bldg.								
NORTH	71020	William Rd., Thunder Bay Police Stn.	A6	03729	53647	186	9	X		
EAST	71022	Hillside Dr. N., Elliot Lake Sault College, Queens St.	A6	03729	51379	351	3	×		
	71023	Sault Ste. Marie Hydro Pole, Quirke Townsite	A6	07029	51550	183	5	×	X	×
	71042	No. 1, Elliot Lake Bonney St. Pumphouse	A6	03742	51517	388	4	×		
	71049	Sault Ste. Marie Land Reg. Office,	S6	07011	51555	190	1	×	X	×
		Queen St., Sault Ste. Marie	A6	07047	51543	183	6	×	×	×
	71053	Denison Townsite Elliot Lake	S6	03766	51504	409	2	×		
	71054	Nordic Townsite Elliot Lake	A6	03788	51372	412	2	x		
	71061 71063	Esker Lake Camp Stollery Lake Trailer Park	A6 A6	03735 03735	51500 51490	396 381	4 3	X		
	71065	St. Joseph's Hospital Blind River	A6	03488	51160	180	15	×		
	75010	OPP Station							v	
	77016	North Bay Ash Street Water Tank	A6	06197	51305	212	4	Х	×	X
	77026	Sudbury 19 Lisgar St.	A6	04994	51486	290	3	Х	×	×
	77029	Sudbury Post Office, Spruce	A6	05006	51485	273	14	×	X	×
	77070	Barber St., Espanola Nickel St. Pump House	A6	04405	51235	212	6	x		
	77076	Copper Cliff Post Office	S6	04950	51462	282	5	X	X	x
	77070	Falconbridge	S6	05144	51577	290	5	×	×	×
NEMP	22902	Tyneside Chippewa Rd.	200							
	22904	Binbrooke West Walpole South PS	A6	05914	47746	213	5	X		
	22951	Sandusk Rd., Nanticoke Walpole Con. 11/	A6	05794	47434	198	4	×		
		Sandusk Rd., Hagersville	A6	05768	47548	221	2	x		
	22952	100 M SE Lakeshore Rd								
	22953	Peacock Prov. Park Waterford Conc. 2	A6	05822	47388	185	2	X		
		E. Quarterline Dogs Nest	S3	05702	47396	197	2	x		
	22954	E. Quart. Line/ Waterford Conc. 13								
	22955	Villa Nova Hald-Norf Rd. 8	A6	05654	47535	229	2	X		
	2200	Cayuga Conc. 2 Rainham Centre	A 6	05943	47441	191	2	v		
		namiam centre	Ab	- 15		191	2	×		

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Table 2 — Continued . . .

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE		DINATES GRID NORTH	SITE ELE- VATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	TSP	ANALYSE METALS	S SO ₄ ⁻² NO ₃
NEMP	22956	Hald-Norf Rd. 17 H-N Rd. 32								
		Canfield South	A6	06026	47527	183	2	X		
	22957	Fisherville Indian Line Rd.								
		Fisherville	A6	05886	47509	206	1	X		
	22958	H-N Rd. 63 5 Km E H-N Rd. 14	22			020	2			
		Canborough East	A6	06109	47607	181	2	X		
	22959	Hwy 59	4.0	05.440	47105	173	2	X		
	22000	Big Creek Wildlife Reserve McKenzie Rd. H-N Rd. NN	A6	05449	47165	1/3	2	^		
	22960	Dufferin North	A6	05839	47600	215	2	X		
	22961	Nanticoke Rd. Walpole	AO	03033	47000	613	-			
	22301	Con. 2. Nanticoke North	S3	05758	47412	190	3	X		
	22963	NNW 6	-	00.00			-	1,550		
		Stelco North	S3	05838	45323	198	2	X		

LEGEND

Survey Type:

A - Ambient survey for general air quality

S - Source-specific survey

N - Station does not conform to Canadian Federal Provincial siting criteria

6 – Ambient particulate levels measured every 6 days 3 – Ambient particulate levels measured every 3 days 1 – Ambient particulate levels measured daily

Analysis:

TSP:

Filter analyzed for total suspended particulate matter

Metals:

Filter analyzed for one or more of the following metals by atomic adsorption, X-ray fluorescence or induced coupled plasma methods:

lead, iron, copper, cadmium chromium, zinc, vanadium, nickel, manganese.

Filter analyzed for sulphate and nitrate ions. SO4-2/NO3-:

Table 3 Stations with Meteorological Sampling Instrumentation (Data abstracted hourly)

					SITE ELE- VATION ABOVE MEAN SEA		
BEOLON	STATION	NAME OF STATION	UTM EAST	GRID NORTH	LEVEL (METRES)	SENSOR TYPE	SENSOR HEIGHT (METRES)
REGION	NUMBER	NAME OF STATION	EASI	NORTH	(METHES)	SENSON TIPE	SENSON REIGHT (METRES)
SOUTH	12001	1.1 km NNE				WS1,WD1,T	18
WEST		Keith GS, Windsor	03276	46839	177	WS3,WD3,DT2	80
	13021	Merlin Water Pumping Station, Merlin	03991	46776	190	WS1.WD1	9
	14016	Opposite Lambton G.S.	03808	47343	183	WS1.WD1.T	10
	14010	Courtright	00000	-,,,,,,	,,,,,	WS2.WD2.DT1	30
		Couringin				WS3.WD3.DT2	91
	14062	242 Indian Rd. S.	03878	47578	183	WS1.WD1	9
	14002	Sarnia	00070	41010	100	,	
	17006	St. Anthony's S.S.	05132	47696	302	WS1.WD1	10
	17000	Hwy 2, Beachville		1000000	15000		
	18013	Bruce Nuclear Site	04537	49097	170	WS1,WD1,T	10
		Tiverton				WS2,WD2,DT1	30
						WS3,WD3,DT2	100
WEST	27011	Hydro SS, Hwy 58	06476	47702	191	WS1,WD1,T	10
CENTRAL		Allanburg				WS2,WD2,DT1	37
	29026	Brampton Woodward	05996	47895	84	WS1,WD1,T	10
		Hamilton				WS2.WD2.DT1	61
CENTRAL	31025	Island Airport	06293	48320	81	WS1,WD1	10
		Toronto					
	31045	Bruce P.S. Larchmount Ave., Toronto	06343	48354	79	WS2,WD2	21
	31120	Junction Triangle	06248	48344	113	WS1,WD1	18
	31120	Perth Ave., Toronto	00240	40544	113	1101,1101	10
	33003	Lawrence-Kennedy	06389	48452	168	WS1.WD1.T	12
	33003	Scarborough	00000	40452	100	WS2.WD2.DT1	76
	35033	Evans Arnold Ave.	06192	48302	107	WS1.WD1.T	10
	33033	Etobicoke	00102	10000	7.36.7.	WS2.WD2.DT1	30
		Liouida				WS3.WD3.DT2	91
	44015	Bronte Rd./Woburn Cres.	06031	48059	91	WS1,WD1	10
		Oakville			-		

Table 3 — Continued . . .

	STATION		UTM	GRID	SITE ELE- VATION ABOVE MEAN SEA LEVEL		
REGION	NUMBER	NAME OF STATION	EAST	NORTH	(METRES)	SENSOR TYPE	SENSOR HEIGHT (METRES)
CENTRAL	45025	Ritson Rd. Olive Ave. Oshawa	06718	48623	101	WS1,WD1	10
	48002	MTC Yard #9, Hwy 47 Stouffville	06391	48694	259	WS1,WD1	10
	58031	Filtration Plant Marsh St., Port Hope	07169	48688	85	WS1,WD1	10
SOUTH EAST	56065	861 West Second St. Cornwall	05200	49845	66	WS1,WD1	9
NORTH WEST	63084	Recreation Centre Red Rock	04080	54216	251	WS1,WD1	12
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	63090	St. Martin School Terrace Bay	04927	54034	275	WS1,WD1	12
NORTH EAST	77025	CKNC-TV 699 Frood Rd., Sudbury	04995	51505	288	WS1,WD1,T WS3,WD3,DT2	10 116

Legend: WS1 - wind speed below 23 m; WD1 - wind direction below 23 m; WS2 - wind speed 23 m to 76 m; WD2 - wind direction 23 m to 76 m; WS3 - wind speed above 76 m; WD3 - wind direction above 76 m; T - ambient temperature; DT1 - temperature difference Level 2 minus Level 1; DT2 - temperature difference Level 3 minus Level 1.

Table 4 Criteria for Desirable Air Quality (per O. Reg. 872/74)

	(per O. Reg. 872/74)			
NAME OF CONTAMINANT	UNIT OF MEASUREMENT	AVERAGE AMOUNT OF CONCENTRATION	PERIOD OF TIME	APPROXIMATE EQUIV. AT 10 °C AND 101.2 KPa PRESSURE
Carbon Monoxide	Parts of carbon	30	1 hour	36,200 ug/m ³
	monoxide per one million parts of air by volume	13 .	8 hours	$15,700 \text{ug/m}^3$
Nitrogen Dioxide	Parts of nitrogen	0.20	1 hour	400 ug/m ³
	dioxide per one million parts of air by volume	0.10	24 hours	200 ug/m ³
Ozone	Parts of ozone per one billion parts of air by volume	80	1 hour	165 ug/m ³
Soiling	Coefficient of Haze per 1000 feet of air	1.0 0.5	24 hours 1 year	,=
Sulphur dioxide	Parts of sulphur dioxide per one million parts of air by volume	0.25 0.10 0.02	1 hour 24 hours 1 year	690 ug/m ³ 275 ug/m ³ 55 ug/m ³
Cadmium	Micrograms of cadmium per cubic metre of air	2.0	24 hours	
Chromium	Micrograms of chromium per cubic metre of air	1.5	24 hours	
Copper	Micrograms of copper per cubic metre of air	50.0	24 hours	
Lead	Micrograms of lead per cubic metre of air	5.0	24 hours	
Manganese	Micrograms of manganese per cubic metre of air	50.0	24 hours	
Nickel	Micrograms of nickel per cubic metre of air	2.0	24 hours	
Total Suspended	Micrograms of total suspended	120	24 hours	
Particulate Matter	particulate matter per cubic metre of air	60 (geo- metric mean)	1 year	
Vanadium	Micrograms of vanadium per cubic metre of air	2.0	24 hours	

Table 5 Summary of Data: Sulphur Dioxide (all values in p.p.m.)
Ontario Criteria – 1 Hour Average: 0.25 p.p.m.; 24-Hour Average: 0.10 p.p.m.; 1 Year Average: 0.02 p.p.m.
INS – Indicates insufficient sample size to apply 1 Year average criterion

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC MEAN		IMUM 24-HR	ABO	OF TIN VE CRIT 24-HR	ERIA
SOUTH	12008	467 University Ave. W.													
WEST		Windsor	354	.000	.000	.000	.006	.020	.060	.009	.15	.06	NIL	NIL	NIL
	12013	3665 Wyandotte St. E. Windsor	355	.000	.000	.000	.000	.009	.041	.004	.11	.08	NIL	NIL	NIL
	12016	College/South St.													
	12032	Windsor Morton Dock	347	.000	.000	.002	.007	.018	.048	.009	.13	.04	NIL	NIL	NIL
		Bedford/Ojibway, Windsor	365	.000	.000	.000	.006	.016	.042	.008	.13	.03	NIL	NIL	NIL
	14004	Hydro SS Concession 14/15, Courtright	339	.000	.000	.000	.000	.006	.034	.003	.31	.04	1	NIL	NIL
	14016	Lambton GS Hwy. 40, Sarnia	360	.000	.000	.000	.000	.014	.073	.006	.62	.07	4	NIL	NIL
	14062	242 Indian Rd. S.	300	.000		.000	.000		.073	.000	.02	.07	7.4		INIL
	14064	Sarnia Centennial Park	356	.000	.000	.000	.004	.019	.068	.008	.23	.05	NIL	NIL	NII
		Front St./CN Tracks, Sarnia	359	.000	.000	.000	.006	.029	.116	.012	.24	.10	NIL	NIL	NII
	15001	Western Fair Grounds King/Rectory, London	365	.000	.000	.000	.000	.009	.027	.004	.07	.03	NIL	NIL	NII
	18007	Concession Rd. 2, Lot AA													
		Tiverton	350	.000	.000	.000	.000	.002	.017	.001	.06	.02	NIL	NIL	NII
VEST CENTRAL	22071	Experimental Farm Simcoe	357	.000	.000	.000	.000	.009	.029	.004	.22	.03	NIL	NIL	NII
CENTRAL	22086	Cheapside Rd. 3 km S of													
		Hwy.3. Nanticoke	358	.000	.000	.000	.001	.010	.039	.005	.27	.04	1	NIL	NII
NEMP	22901	100 M S. Hwy. 59		1275(19)	\$250 to	0000	W-000	2017/22	250(2)	1,000			5000	(61)	23/4/3
	22902	Long Point Prov. Park Tyneside/Chippewa Rd.	358	.000	.000	.002	.005	.012	.033	.005	.11	.03	NIL	NIL	NII
	0.000.000	Binbrooke West	329	.000	.001	.003	.006	.014	.044	.006	.14	.04	NIL	NIL	NII
VEST	26029	Edna/Frederick St.													
ENTRAL	07007	Kitchener	311	.000	.000	.000	.000	.007	.033	.003	.11	.05	NIL	NIL	NI
	27037	North/Geneva St. St. Catharines	355	.000	.000	.000	.002	.010	.037	.005	.14	.04	NIL	NIL	NI
	27042	Niagara Falls Rd./Ontario St. Thorold	338	.000	.000	.000	.000	.019	.208	.012	1.63	.16	58	4	NI
	27046	Public Works, 200 M S of													
	27048	Beaverdam Rd., Thorold Niagara Public Works	330	.000	.000	.000	.006	.020	.078	.010	.86	.09	11	NIL	NI
		Dominion Rd., Fort Erie	335	.000	.000	.000	.005	.015	.033	.007	.14	.04	NIL	NIL	NI
	27049	Murray Buchanan Ave. Niagara Falls	362	.000	.000	.000	.000	.008	.029	.003	.09	.04	NIL	NIL	NI
	27051	Holy Trinity Church Norton/Portage, Chippawa	352	.000	.000	.001	.007	.021	.092	.011	.60	.09	8	NIL	NI
	28025	Farquhar/Wyndham St.													
	29008	Guelph North Park	350	.000	.000	.000	.000	.008	.029	.003	.10	.03	NIL	NIL	NI
		Hamilton	355	.000	.000	.000	.008	.028	.059	.010	.17	.05	NIL	NIL	NI
	29025	Barton/Wentworth Hamilton	363	.000	.000	.005	.011	.028	.072	.014	.18	.05	NIL	NIL	NI
ENTRAL	31104	26 Breadalbane													
LINITIAL		Toronto	362	.000	.000	.000	.003	.013	.044	.006	.22	.06	NIL	NIL	NI
	31105	Sherbourne Wilton St. Toronto	364	.000	.000	.000	.000	.008	.040	.004	.16	.06	NIL	NIL	NI
	31120	Junction Triangle													
	33003	Perth Ave., Toronto Lawrence/Kennedy	355	.000	.000	.002	.007	.017	.049	.009	.25	.06	NIL	NIL	NI
	22010	Scarborough Met Branch, Scarborough	353	.000	.000	.000	.000	.009	.030	.004	.22	.05	NIL	NIL	NI
	33019	Bluffs, Scarborough	342	.000	.000	.000	.000	.008	.024	.004	.13	.03	NIL	NIL	NI
	34002	Science Centre 770 Don Mills Rd., North York	325	.000	.002	.005	.009	.019	.044	.012	.23	.06	NIL	NIL	NI
	34007	Bathurst/Wilson													
	35003	North York Elmcrest Rd.	341	.000	.000	.003	.008	.019	.057	.010	.25	.06	NIL	NIL	NI
	25005	Etobicoke Quantum Haspital	338	.000	.000	.000	.003	.011	.035	.006	.15	.03	NIL	NIL	N
	35005	Queensway Hospital Etobicoke	342	.000	.000	.000	.004	.010	.032	.006	.19	.03	NIL	NIL	NI
	35033	Evans/Arnold Ave. Etobicoke	304	.000	.000	.000	.000	.008	.026	.003	.11	.02	NIL	NIL	NI
	35050	MOE Lab													
	44008	Resources Rd., Etobicoke Hwy. 2/North Shore Blvd. E.	322	.000	.000	.003	.009	.019	.058	.011	.27	.07	2	NIL	N
		Burlington	359	.000	.000	.000	.002	.009	.029	.005	.10	.03	NIL	NIL	N
	44015	Bronte Rd./Woburn Cres. Oakville	347	.000	.000	.000	.002	.016	.075	.007	.17	.06	NIL	NIL	NI
	45025	Ritson Rd./Olive Ave.													
		Oshawa	361	.000	.000	.000	.000	.009	.030	.004	.10	.03	NIL	NIL	NI

Table 5 — Continued . . .

46100 Public School Green Glade RL Mississauaga 323 000 000 000 000 001 038 008 .11 03 NIL NIL 1400 000	REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC MEAN		IMUM 24-HR	ABO	OF TIME VE CRIT 24-HR	ERIA
Green Glader Rd. Mississauga 323 000 000 002 006 012 038 008 11 03 Nil. NIL. NIL 14010 00000000000000000000000000000000				-,,,-									_,,,,,,			
Method Additional Company West Huron Additional Company Addition		46100		222	000	000	002	006	012	020	000		02	NIII	NIII	NIL
MEDIT March Marc		46110	Queensway West/Huron-						.012	.030	.000	- 1.1	.03			INIL
Hays 47, Studfwile 349 000 000 000 007 019 003 07 02 NIL NIL NIL SOUTH		48002		343	.000	.000	.000	.004	.011	.037	.006	.28	.04	2	NIL	NIL
SOUTH SOUTH STORT			Hwy. 47, Stouffville	349	.000	.000	.000	.000	.007	.019	.003	.07	.02	NIL	NIL	NIL
SOUTH STOTE McDonaki Grans, Rideau McDonaki Grans, Rideau STOTE ST		59006		294	000	000	000	000	007	020	003	04	02	NII	NII	NIL
51038 General Hospital 342 McGill, Hawkesbury 289 000 000 000 000 023 107 011 55 07 10 NIL NIL Memorial Park York Third'SL, Cornwall 357 000 000 000 007 024 081 0.10 29 07 1 NIL NIL State of the Park NIL NIL NIL State of the Park NIL NIL NIL State of the Park NIL NI		51001	McDonald Gdns., Rideau													
MORTH September Septembe	EAST	51038		335	.000	.000	000	.000	.009	.035	.004	.13	.04	NIL	NIL	NIL
Vork Third St., Cornwall 357 000 000 000 007 024 081 010 29 07 1 NilL		50051	342 McGill, Hawkesbury	289	.000	.000	.000	.006	.023	.107	.011	.55	.07	10	NIL	NIL
WEST Balmentown 126		56051		357	.000	.000	.000	.007	.024	.081	.010	.29	.07	1	NIL	NIL
WEST Balmertown 126	NORTH	61010	Lassia Dickarson Rds													
Balmertown		01010		126	.000	.000	.000	.000	.017	.297	.014	.68	.23	53	3	INS
Hospital 35 Algoma St N , Thunder Bay 308 000		61014		147	000	000	000	000	001	206	012	72	17	E 1		INS
63040 435 James St S. 71046 Flash 71049 Land Reg Office Queen St. Sauth Ste. Manne American St. Steel Waller Flash 71057 Carl M. Bed. St. Sauth St. Manne 71057 Carl M. Bed. St. Sauth St. Manne 71057 71057 71058 71057 71058 71059 710		63022		147	.000	.000	.000	.000	.001	.290	.012	./3	.17	51	5	INS
NORTH		63040		308	.000	.000	.000	.000	.000	.007	.000	.09	.01	NIL	NIL	NIL
EAST		00040	The state of the s	352	.000	.000	.000	.000	.000	.009	.000	.18	.02	NIL	NIL	NIL
Tribot	NORTH	71049	Land Reg. Office													
Town of Mission Town of Mission Sir James Duni Public School Wawa 71059 Garl M. Beck Public School Wawa 71064 30 Birch St. Wawa 95 000 000 000 000 000 000 000	EAST	71057		353	.000	.000	.000	.000	.006	.025	.002	.06	.03	NIL	NIL	NIL
Wawa 307 000 000 000 001 007 007 97 08 11 NIL			Town of Mission	365	.000	.000	.000	.000	.000	.079	.003	.79	.14	22	1	NIL
Table Carl M. Beck Public School Wawa 322 .000 .000 .000 .006 .091 .004 .85 .08 8 NIL		71058		307	000	000	000	000	016	097	007	97	08	11	NII	NIL
71064 30 Birch St. Wawa 95 000 000 000 000 000 143 005 .33 05 5 NIL 75010 OPP Station North Bay 360 000 000 000 000 000 006 .025 003 .10 04 NIL NIL 77009 Burwash Sudbury Airshed 239 000 000 000 000 005 064 004 .41 06 9 NIL 77010 Callum Sudbury Airshed 252 000 000 000 000 000 006 057 003 .45 04 1 NIL 77012 Skead Sudbury Airshed 249 000 000 000 000 000 010 156 008 62 09 32 NIL 77013 Hammer Sudbury Airshed 249 000 000 000 000 005 099 004 .54 10 7 NIL 77014 Rayside Sudbury Airshed 249 000 000 000 000 005 099 004 .54 10 7 NIL 77016 Ash Street Water Tank Sudbury Street Water Tank Sudbury Airshed 293 000 000 000 000 005 049 003 .31 06 3 NIL 77018 St. Charles Sudbury Airshed 293 000 000 000 000 003 039 002 .19 03 NIL 77023 Hamps Yairshed 293 000 000 000 000 003 039 002 .19 03 NIL 77026 Government Edward St. Coniston 358 000 000 000 000 002 .114 009 69 .10 22 NIL 77065 Falconbridge Rd Garson Sudbury Airshed 361 000 000 000 000 002 .022 .114 0.09 69 .10 22 NIL 77075 Kennedy St. New Sudbury Airshed 361 000 000 000 000 .003 .054 0.03 .58 .11 6 1 77075 Kennedy St. New Sudbury Airshed 361 000 000 000 000 .000 .003 .55 .09 6 NIL 77075 Kennedy St. New Sudbury Airshed 361 000 000 000 000 .000 .003 .55 .009 9 NIL 77075 Kennedy St. New Sudbury Airshed 361 000 .000 .000 .000 .000 .000 .000 .00		71059	Carl M. Beck Public School													
Wawa 95 000 000 000 000 000 143 0.05 33 05 5 NIL 75010 OPP Station 360 000 000 000 000 006 025 003 .10 .04 NIL NI		71064		322	.000	.000	.000	.000	.006	.091	.004	.85	.08	8	NIL	NIL
North Bay 800 000 000 000 000 000 005 006 025 003 .10 .04 NIL NIL 800 000 000 000 000 000 000 005 064 004 .41 06 9 NIL 800 000 000 000 000 000 000 000 005 064 004 .41 06 9 NIL 800 000 000 000 000 000 000 000 005 064 004 .41 06 9 NIL 800 000 000 000 000 000 000 000 005 064 004 .41 06 9 NIL 800 000 000 000 000 000 000 000 005 009 003 .45 0.4 1 NIL 800 000 000 000 000 000 000 000 000 005 009 004 .54 00 7 NIL 800 000 000 000 000 000 000 005 009 004 .54 00 7 NIL 800 000 000 000 000 000 000 005 009 004 .54 00 7 NIL 800 000 000 000 000 000 000 005 009 003 .31 06 3 NIL 800 000 000 000 000 000 005 009 003 .31 06 3 NIL 800 000 000 000 000 000 000 005 009 000 .31 066 000 .33 0.5 2 NIL 800 000 000 000 000 000 000 000 000 000			Wawa	95	.000	.000	.000	.000	.000	.143	.005	.33	.05	5	NIL	INS
Sudbury Airshed 239 000 000 000 000 005 064 004 .41 066 9 NIL Callum Sudbury Airshed 252 000 000 000 000 006 057 003 .45 0.4 1 NIL 1		75010		360	.000	.000	.000	.000	.006	.025	.003	.10	.04	NIL	NIL	NIL
Callum Sudbury Airshed 252 000 000 000 000 006 057 003 .45 .04 1 NIL 17012 Skead Sudbury Airshed 224 000 000 000 000 001 .156 008 .62 .09 32 NIL 17013 Hanner Sudbury Airshed 249 000 000 000 000 005 099 004 .54 .10 7 NIL 17014 Rayside Sudbury Airshed 249 000 000 000 000 005 049 003 .31 .06 3 NIL 17016 Ash Street Water Tank Sudbury St. Charles Sudbury Airshed 293 000 000 000 002 007 018 066 010 .33 .05 2 NIL 17018 St. Charles Sudbury Airshed 293 000 000 000 000 000 .003 .039 .002 .19 .03 NIL NIL 17023 Happy Valley Falconbridge 130 000 000 000 000 .000 .003 .039 .002 .19 .03 NIL NIL 17028 Government Edward St. Coniston 358 .000 .000 .000 .000 .000 .009 .086 .006 1.12 .17 15 1 .7055 Falconbridge Rd. Garson, Sudbury Airshed 245 .000 .000 .000 .000 .000 .009 .008 .006 .006 1.12 .17 15 1 .7066 Temagami Sudbury Airshed 361 .000 .000 .000 .000 .003 .054 .003 .58 .11 6 1 .70705 Kennedy St. New Sudbury Airshed 361 .000 .000 .000 .000 .000 .003 .054 .003 .58 .11 6 1 .70705 Kennedy St. New Sudbury Airshed 361 .000 .000 .000 .000 .000 .007 .064 .004 .27 .05 2 NIL 17092 Laurentan Hospital 41 Ramsey Lake Rd. Sudbury 244 .000 .000 .000 .000 .007 .064 .004 .27 .05 2 NIL 17096 .000 .000 .000 .000 .007 .004 .005 .55 .09 9 NIL 180 .000 .000 .000 .000 .007 .004 .005 .55 .009 9 .000 .000 .000 .000 .00		77009		220	000	000	000	000	005	064	004	44	06	0	NIII	KIII
Total Skead Sudbury Airshed Sudbury Airs		77010		239	.000	.000	.000	.000	.005	.064	.004	.41	.06	9	INIL	NIL
Sudbury Airshed 224 000 000 000 000 010 156 008 62 09 32 NIL 17013 Hammer Sudbury Airshed 249 000 000 000 000 005 099 004 54 10 7 NIL 17014 Rayside Sudbury Airshed 249 000 000 000 000 005 049 003 31 06 3 NIL 17016 Ash Street Water Tank Sudbury Airshed 293 000 000 000 000 005 049 003 31 06 3 NIL 17018 St. Charles Sudbury Airshed 293 000 000 000 000 003 039 002 19 03 NIL NIL 17018 Apply Valley Falconbridge 130 000 000 000 000 000 003 039 002 19 03 NIL NIL 17018 Apply Valley Falconbridge 130 000 000 000 000 000 005 366 019 1.78 25 58 6 100 000 000 000 000 000 000 000 000 0		77012		252	.000	.000	.000	.000	.006	.057	.003	.45	.04	1	NIL	INS
Sudbury Airshed 249 .000 .000 .000 .005 .099 .004 .54 .10 7 NIIL Rayside			Sudbury Airshed	224	.000	.000	.000	.000	.010	.156	.008	.62	.09	32	NIL	INS
77014 Rayside Sudbury Airshed 249 000 000 000 000 005 049 003 .31 06 3 NIL 77016 Ash Street Water Tank Sudbury 357 000 000 000 002 007 018 066 .010 .33 05 2 NIL 77018 St. Charles Sudbury Airshed 293 000 000 000 000 000 003 039 .002 .19 03 NIL NIL 77023 Happy Valley Falconbridge 130 000 000 000 000 000 025 366 .019 1.78 .25 58 6 77028 Government Edward St. Coniston 358 000 000 000 000 000 009 086 .006 1.12 .17 15 1 77065 Falconbridge Rd. Garson, Sudbury Airshed 245 000 000 000 000 000 .022 .114 .009 .69 .10 22 NIL 77066 Temagami Sudbury Airshed 361 000 000 000 000 .000 .003 .054 .003 .58 .11 6 1 77075 Kennedy St. New Sudbury Airshed 361 000 000 000 000 .000 .000 .003 .054 .003 .58 .11 6 1 77092 Laurentian Hospital 41 Ramsey Lake Rd. Sudbury 244 000 .000 .000 .000 .007 .064 .004 .27 .05 2 NIL 17096 Long Lake Rd. Villa Loyola, Sudbury 230 .000 .000 .000 .000 .007 .084 .005 .55 .09 9 NIL 17096 Villa Loyola, Sudbury 230 .000 .000 .000 .000 .007 .084 .005 .55 .09 9 NIL 17096 Villa Loyola, Sudbury 230 .000 .000 .000 .000 .007 .084 .005 .55 .09 9 NIL 17096 Villa Loyola, Sudbury 230 .000 .000 .000 .000 .007 .084 .005 .55 .09 9 NIL 17096 Villa Loyola, Sudbury 230 .000 .000 .000 .000 .007 .084 .005 .55 .09 9 NIL 1800 .000 .000 .000 .000 .000 .000 .007 .008 .005 .55 .09 9 NIL 1800 .000 .000 .000 .000 .000 .000 .000		77013		249	000	000	000	000	005	099	004	54	10	7	NII	INS
77016 Ash Street Water Tank Sudbury Sudbury St. Charles Sudbury Airshed Sudbury Sudbur		77014	Rayside													
77018 St. Charles Sudbury Airshed 293 .000 .000 .000 .000 .003 .039 .002 .19 .03 NIL NIL 77023 Happy Valley Falconbridge 130 .000 .000 .000 .000 .025 .366 .019 1.78 .25 .58 .6 .1 77028 Government Edward St. Coniston 358 .000 .000 .000 .000 .009 .086 .006 1.12 .17 .15 .1 77065 Falconbridge Rd. Garson, Sudbury Airshed 245 .000 .000 .000 .000 .022 .114 .009 .69 .10 .22 NIL .1 77066 Temagami Sudbury Airshed 361 .000 .000 .000 .000 .003 .054 .003 .58 .11 .6 .1 77075 Kennedy St. New Sudbury New Sudbury Airshed 361 .000 .000 .000 .000 .004 .017 .078 .008 .51 .09 .6 NIL .1 77092 Laurentian Hospital 41 Ramsey Lake Rd., Sudbury .244 .000 .000 .000 .000 .007 .064 .004 .27 .05 .2 NIL .1 77096 Long Lake Rd. Villa Loyola, Sudbury .230 .000 .000 .000 .000 .007 .084 .005 .55 .09 .9 NIL .1		77016		249	.000	.000	.000	.000	.005	.049	.003	.31	.06	3	NIL	INS
Sudbury Airshed 293 .000 .000 .000 .003 .039 .002 .19 .03 NIL NIL 177023 Happy Valley Falconbridge 130 .000 .000 .000 .000 .025 .366 .019 1.78 .25 58 6 1		77010		357	.000	.000	.002	.007	.018	.066	.010	.33	.05	2	NIL	NIL
Falconbridge 130 000 000 000 000 025 366 019 1.78 25 58 6 1 77028 Government Edward St. Coniston 358 000 000 000 000 009 086 006 1.12 1.7 15 1 77065 Falconbridge Rd. Garson, Sudbury Airshed 245 000 000 000 000 022 1.14 009 69 10 22 NIL 1 77066 Temagami Sudbury Airshed 361 000 000 000 000 003 0.54 0.03 5.8 1.1 6 1 77075 Kennedy St. New Sudbury New Sudbury 361 000 000 000 000 004 0.17 0.78 0.08 5.1 0.9 6 NIL 1 77092 Laurentian Hospital 41 Ramsey Lake Rd., Sudbury 244 0.00 0.00 0.00 0.00 0.07 0.64 0.04 2.7 0.5 2 NIL 1 77096 Villa Loyola, Sudbury 230 0.00 0.00 0.00 0.00 0.07 0.084 0.05 0.55 0.9 9 NIL 1		77018		293	.000	.000	.000	.000	.003	.039	.002	.19	.03	NIL	NIL	NIL
77028 Government Edward St. Coniston 358 .000 .000 .000 .000 .009 .086 .006 1.12 .17 15 1 77065 Falconbridge Rd. Garson, Sudbury Airshed 245 .000 .000 .000 .000 .022 .114 .009 .69 .10 .22 .NIL		77023		120	000	000	000	000	025	266	010	1 70	25	EO		INS
77065 Falconbridge Rd. Garson, Sudbury Airshed 245 000 000 000 000 022 114 009 69 10 22 NIL 1 77066 Temagami Sudbury Airshed 361 000 000 000 000 003 054 003 58 11 6 1 77075 Kennedy St. New Sudbury 361 000 000 000 004 017 078 008 51 09 6 NIL 1 77092 Laurentian Hospital 41 Ramsey Lake Rd., Sudbury 244 000 000 000 000 007 064 004 27 05 2 NIL 1 77096 Long Lake Rd. Villa Loyola, Sudbury 230 000 000 000 000 007 084 005 55 09 9 NIL 1		77028	Government Edward St.									1.70	.23	36	0	IIVS
Garson, Sudbury Airshed 245 .000 .000 .000 .000 .022 .114 .009 .69 .10 .22 NIL 17066 Temagami Sudbury Airshed 361 .000 .000 .000 .000 .003 .054 .003 .58 .11 .6 .1 .77075 Kennedy St. New Sudbury 361 .000 .000 .000 .004 .017 .078 .008 .51 .09 .6 NIL 17092 Laurentian Hospital 41 Ramsey Lake Rd., Sudbury 244 .000 .000 .000 .000 .007 .064 .004 .27 .05 .2 NIL 17096 Long Lake Rd. Villa Loyola, Sudbury 230 .000 .000 .000 .000 .007 .084 .005 .55 .09 .9 NIL 17096		77065		358	.000	.000	.000	.000	.009	.086	.006	1.12	.17	15	1	NIL
Sudbury Airshed 361 .000 .000 .000 .000 .003 .054 .003 .58 .11 6 1 77075 Kennedy St. New Sudbury 361 .000 .000 .000 .004 .017 .078 .008 .51 .09 6 NIL 77092 Laurentian Hospital 41 Ramsey Lake Rd., Sudbury 244 .000 .000 .000 .000 .007 .064 .004 .27 .05 2 NIL 77096 Long Lake Rd. Villa Loyola, Sudbury 230 .000 .000 .000 .000 .007 .084 .005 .55 .09 9 NIL			Garson, Sudbury Airshed	245	.000	.000	.000	.000	.022	.114	.009	.69	.10	22	NIL	INS
77075 Kennedy St. New Sudbury 361 .000 .000 .000 .004 .017 .078 .008 .51 .09 6 NIL 77092 Laurentian Hospital 41 Ramsey Lake Rd., Sudbury 244 .000 .000 .000 .000 .007 .064 .004 .27 .05 2 NIL 77096 Long Lake Rd. Villa Loyola, Sudbury 230 .000 .000 .000 .000 .007 .084 .005 .55 .09 9 NIL		77066		361	.000	.000	.000	.000	.003	.054	.003	58	.11	6	1	NIL
77092 Laurentian Hospital 41 Ramsey Lake Rd., Sudbury 244 .000 .000 .000 .000 .007 .064 .004 .27 .05 2 NIL I 77096 Long Lake Rd. Villa Loyola, Sudbury 230 .000 .000 .000 .000 .007 .084 .005 .55 .09 9 NIL I		77075	Kennedy St.													
41 Ramsey Lake Rd., Sudbury 244 .000 .000 .000 .000 .007 .064 .004 .27 .05 2 NIL I 77096 Long Lake Rd. Villa Loyola, Sudbury 230 .000 .000 .000 .000 .007 .084 .005 .55 .09 9 NIL I		77092		361	.000	.000	.000	.004	.017	.078	.008	.51	.09	6	NIL	NIL
Villa Loyola, Sudbury 230 .000 .000 .000 .000 .007 .084 .005 .55 .09 9 NIL I		77006		244	.000	.000	.000	.000	.007	.064	.004	.27	.05	2	NIL	INS
77201 Mikkola I Hamilton			Villa Loyola, Sudbury	230	.000	.000	.000	.000	.007	.084	.005	.55	.09	9	NIL	INS
		77201	Mikkola, J. Hamilton School, Walden Town	157	000	000	000	000	000	046	ດດວ	36	0.4	2	NII	INS

Table 6 Summary of Data: Carbon Monoxide (all values in p.p.m.)
Ontario Criteria – 1 Hour Average: 30 p.p.m.; 8 Hour Average: 13 p.p.m.

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC	MAX	IMUM		TIMES
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR	8-HR	1-HR	8-HR
SOUTH	12008	467 University Ave. W.												
WEST	14064	Windsor Centennial Park	355	0.0	0.0	0.0	0.3	1.0	3.5	0.5	10	6	NIL	NIL
	15001	Front St./CN Tracks, Sarnia Western Fair Grounds	352	0.0	0.0	0.0	0.0	0.2	2.0	0.2	16	5	NIL	NIL
		King Rectory, London	358	0.0	0.0	0.0	0.0	0.8	3.0	0.3	12	7	NIL	NIL

Table 6 — Continued . . .

22901 22902 26029 27037 29025 31049 31104	LOCATION 100 m S. Hwy. 59 Long Point Prov. Park Tyneside Chippewa Rd. Binbrooke West Edna Frederick St. Kitchener North Geneva St. St. Catharines Barton Wentworth Hamilton Mission, 381 Yonge St.	348 347 349 344	0.0	0.0	0.0	0.0	0.2	1.1	0.1 0.1	4 2	2 2	1-HR NIL	8-HR NIL
22902 26029 27037 29025 31049	Long Point Prov. Park Tyneside Chippewa Rd. Binbrooke West Edna Frederick St. Kitchener North Geneva St. St. Catharines Barton Wentworth Hamilton	347 349 344	0.0	0.0	0.0								NIL
22902 26029 27037 29025 31049	Long Point Prov. Park Tyneside Chippewa Rd. Binbrooke West Edna Frederick St. Kitchener North Geneva St. St. Catharines Barton Wentworth Hamilton	347 349 344	0.0	0.0	0.0								NIL
26029 27037 29025 31049	Binbrooke West Edna Frederick St. Kitchener North Geneva St. St. Catharines Barton Wentworth Hamilton	349 344	0.0			0.0	0.0	0.9	0.1	2	2	NIII	
27037 29025 31049	Kitchener North Geneva St. St. Catharines Barton Wentworth Hamilton	344		0.0	0.1							INIL	NIL
27037 29025 31049	Kitchener North Geneva St. St. Catharines Barton Wentworth Hamilton	344		0.0	0.4								
29025 31049	North Geneva St. St. Catharines Barton Wentworth Hamilton	344		100,000	17.4	0.8	1.6	4.4	1.0	12	6	NIL	NIL
29025 31049	St. Catharines Barton Wentworth Hamilton		0.0		200					2.50			
31049	Hamilton	200	0.0	0.0	0.0	0.0	0.8	3.0	0.4	9	6	NIL	NIL
		200											
	Mission 201 Vanga Ct	328	0.0	0.0	0.4	0.9	2.0	4.5	1.1	10	6	NIL	NIL
31104	MISSION, 301 TONGE ST												
31104	Toronto	356	1.0	1.7	2.7	4.1	7.5	18.6	4.2	34	24	4	23
	26 Breadalbane												
	Toronto	356	0.0	0.4	0.8	1.4	2.0	4.3	1.5	12	7	NIL	NIL
31105	Sherbourne Wilton	Valendaria	200		10000000		Control of the Control		100 1000		1000		
	Toronto	361	0.0	0.5	0.9	1.4	2.1	4.6	1.5	13	10	NIL	NIL
31120	Junction Triangle				0.7	2.2	4.0						
00000	Perth Ave., Toronto	362	0.0	0.3	0.7	1.1	1.9	4.5	1.4	14	9	NIL	NIL
33003	Lawrence Kennedy Scarborough	364	0.1	0.5	0.8	1.4	2.3	4.8	1.6	14	8	NIL	NIL
34002	Science Centre	304	0.1	0.5	0.0	1.4	2.3	4.0	1.0	14	0	IVIL	IVIL
34002	770 Don Mills Rd., North York	358	0.3	1.1	1.6	22	3.3	5.3	2.3	11	10	NIL	NIL
34007	Bathurst Wilson	330	0.0	XIV. X	1.150	Sec. Sec.	0.0	0.0	2.0	17.17.	1,0		
34007	North York	298	0.0	0.5	1.0	1.7	2.9	5.9	1.8	13	10	NIL	NIL
35003	Elmcrest Rd.		250000	0.000	10000		(T) (T)	27-31-73	15.79 X r	22.30			
	Etobicoke	341	0.0	0.0	0.4	0.9	1.9	3.9	1.1	10	7	NIL	NIL
35033	Evans Arnold Ave.												
	Etobicoke	351	0.0	0.7	1.3	1.9	3.1	5.8	1.9	12	8	NIL	NIL
44015	Bronte Rd. Woburn Cres.	ora occinio.	1700010001	10000	778077080	TOTAL CARE		1746013401	(CALLES ATT	24.5467			
	Oakville	356	0.0	0.1	0.6	1.2	2.6	5.9	1.4	10	8	NIL	NIL
44025	Ritson Rd. Olive Ave.	246	0.1	0.7	4.2	1.0	2.8	5.1	1.9	15	9	NIL	NIL
10110	Oshawa	346	0.1	0.7	1.3	1.8	2.8	5.1	1.9	15	9	IVIL	INIL
46110	tario St., Mississauga	346	0.1	0.4	0.7	1.1	1.9	4.8	1.5	18	8	NIL	NIL
F1001	MaDanald Candag												
51001		250	0.0	0.1	0.4	0.7	1.4	20	0.0	Ω	5	NIII	NIL
ECOE+		338	0.0	0.1	0.4	0.7	1.4	2.5	0.9	0	3	IVIL	INIL
	York Third St., Cornwall	365	0.0	0.2	0.4	0.7	1.3	3.5	1.0	12	7	NIL	NIL
56051	Ash Street Water Tank												
77016		350	0.0	0.0	0.0	0.0	0.0	1.5	0.1	7	4	NIL	NIL
51	051	Oueensway West Huron- tario St., Mississauga McDonald Garden Rideau Wurtemburg St., Ottawa Memorial Garden York Third St., Cornwall	Oueensway West Huron- tario St., Mississauga 346 McDonald Garden Rideau Wurtemburg St., Ottawa 358 Memorial Garden York Third St., Cornwall 365 Ash Street Water Tank	0110 Queensway West Huron-tario St., Mississauga 346 0.1 001 McDonald Garden Rideau Wurtemburg St., Ottawa 358 0.0 0051 Memorial Garden York Third St., Cornwall 365 0.0 0016 Ash Street Water Tank 365 0.0	110 Queensway West Huron-tario St., Mississauga 346 0.1 0.4	Oueensway West Huron- tario St., Mississauga 346 0.1 0.4 0.7 McDonald Garden Rideau Wurtemburg St., Ottawa 358 0.0 0.1 0.4 Memorial Garden York Third St., Cornwall 365 0.0 0.2 0.4 Ash Street Water Tank	Queensway West Huron-tario St., Mississauga 346 0.1 0.4 0.7 1.1	Oueensway West-Huron-tario St., Mississauga 346 0.1 0.4 0.7 1.1 1.9 McDonald Garden Rideau Wurtemburg St., Ottawa 358 0.0 0.1 0.4 0.7 1.4 Memorial Garden York Third St., Cornwall 365 0.0 0.2 0.4 0.7 1.3	Queensway West Huron-tario St., Mississauga 346 0.1 0.4 0.7 1.1 1.9 4.8	Oueensway West:Huron-tario St., Mississauga 346 0.1 0.4 0.7 1.1 1.9 4.8 1.5 OUI McDonald Garden Rideau Wurtemburg St., Ottawa 358 0.0 0.1 0.4 0.7 1.4 2.9 0.9 Memorial Garden York Third St., Cornwall 365 0.0 0.2 0.4 0.7 1.3 3.5 1.0 OUI Ash Street Water Tank	Queensway West Huron-tario St., Mississauga 346 0.1 0.4 0.7 1.1 1.9 4.8 1.5 18	Queensway West Huron-tario St., Mississauga 346 0.1 0.4 0.7 1.1 1.9 4.8 1.5 18 8	Queensway West Huron-tario St., Mississauga 346 0.1 0.4 0.7 1.1 1.9 4.8 1.5 18 8 NIL

Table 7 Summary of Data: Total Hydrocarbons (all values in p.p.m.)
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF	10	30	PERCE 50	NTILES	90	99	ARITH- METIC MEAN	MAX 1-HR	IMUM 24-HR	
				100			- 22	3.5					
SOUTH	12008	467 University Ave. W.											
WEST		Windsor	348	1.78	1.88	1.98	2.11	2.46	3.68	2.12	7.0	3.3	
	14064	Centennial Park	0.70.00	10.711-58	a no money	11000=170		E-100-E-1	19000000				
	1,110	Front St./CN Tracks, Sarnia	361	1.62	1.77	1.90	2.09	2.68	4.46	2.12	10.2	3.5	
	14903	Virgil LaSalle	2.2	200									
		Froomfield, Sarnia	28	1.71	1.79	1.92	2.11	2.56	4.12	2.10	6.3	2.8	
	15001	Western Fair Grounds				2000			24377	compatible.			
	. 500 1	King/Rectory, London	357	1.92	2.11	2.28	2.49	3.02	5.06	2.48	9.0	4.4	
		3		SAMMON.									
CENTRAL	31104	26 Breadalbane											
		Toronto	349	1.10	1.36	1.56	1.75	2.13	3.37	1.66	7.1	3.6	
	33003	Lawrence/Kennedy											
		Scarborough	352	1.34	1.53	1.67	1.86	2.33	3.68	1.83	7.0	3.8	
	34002	Science Centre											
		770 Don Mills Rd., North York	346	1.49	1.67	1.86	2.15	2.86	4.81	2.11	7.8	5.1	
	34007	Bathurst/Wilson											
		North York	308	1.61	1.84	2.05	2.32	3.08	4.52	2.26	7.2	4.3	
	35003	Elmcrest Rd.											
	(7.7.7.7.7)	Etobicoke	357	1.71	1.86	2.03	2.25	3.15	4.45	2.28	10.9	4.4	
	35033	Evans/Arnold Ave.											
		Etobicoke	322	1.58	1.77	1.92	2.10	2.59	3.97	2.08	6.7	3.5	
	44015	Bronte Rd./Woburn Cres.											
		Oakville	326	1.43	1.82	2.12	2.43	2.98	4.10	2.22	13.7	4.6	

Table 8 Summary of Data: Reactive Hydrocarbons (all values in p.p.m.)
No Existing Criteria

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC	MAX	IMUM	
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR	24-HR	
SOUTH	12008	467 University Ave. W.											
WEST		Windsor	348	.15	.22	.28	.34	.48	.91	.36	2.1	1.0	
	14903	Virgil LaSalle											
		Froomfield, Sarnia	28	.13	.22	.29	.39	.76	2.33	.45	5.1	1.0	
WEST	22071	Experimental Farm											
CENTRAL		Simcoe	84	.10	.13	.15	.17	.20	.29	.20	0.4	0.3	
NEMP	22903	Cheapside Rd./Walpole Conc. 5											
		Nanticoke	317	.07	.34	.60	.81	1.07	1.58	.64	3.2	2.3	
	22904	Walpole South P.S.											
		Sandusk Rd., Nanticoke	237	.21	.34	.44	.56	.76	1.05	.51	1.6	1.0	
	22905	Nanticoke Rd./Walpole Conc. 5											
		Nanticoke	195	.12	.26	.43	.87	1.07	1.25	.60	1.7	1.2	
WEST	27037	North/Geneva St.											
CENTRAL		St. Catharines	218	.16	.28	.38	.54	.79	1.10	.49	4.4	1.0	
	29008	North Park											
		Hamilton	354	.11	.14	.18	.22	.29	.46	.24	1.2	0.5	
	29025	Barton/Wentworth											
		Hamilton	301	.01	.05	.09	.15	.29	.72	.18	4.2	0.7	

Table 9 Summary of Data: Methane (all values in p.p.m.)
No Existing Criteria

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC	MAX	IMUM	
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR	24-HR	
SOUTH	14903	Virgil LaSalle											
WEST		Froomfield, Sarnia	28	1.48	1.55	1.61	1.65	1.71	1.96	1.65	2.2	1.8	
NEMP	22903	Cheapside Rd./Walpole Conc. 5		040040000									
	22904	Nanticoke Walpole South P.S.	339	1.22	1.33	1.40	1.47	1.59	1.99	1.46	4.0	1.9	
	22905	Sandusk Rd., Nanticoke Nanticoke Rd./Walpole Conc. 5	268	1.25	1.37	1.46	1.57	1.78	2.26	1.55	3.4	2.3	
	22903	Nanticoke Nd./Walpole Colic. 5	196	1.16	1.38	1.49	1.60	1.79	2.17	1.54	5.7	2.2	

Table 10 Summary of Data: Ozone (all values in p.p.m.)
Ontario Criteria – 1 Hour Average: 0.08 p.p.m.

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC	MAX	IMUM	NO. OF TIMES ABOVE CRITERIA
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR	24-HR	1 HR
SOUTH	10001	College of Agric. Tech.											
WEST	3,000	Huron Park	335	.006	.014	.022	.028	.042	.068	.023	.100	.061	21
	12008	467 University Ave. W.											
		Windsor	345	.000	.006	.013	.022	.041	.074	.018	.122	.062	48
	13021	MOE Water Pump Stn.											
		Middle Rd., Merlin	336	.007	.016	.023	.031	.045	.072	.025	.094	.058	12
	14064	Centennial Park											
		Front St./CN Tracks, Sarnia	361	.002	.012	.021	.028	.042	.075	.023	.132	.063	56
	14118	PUC Water Pump Stn.											
		Hwy. 21, Petrolia	355	.006	.013	.020	.028	.040	.063	.022	.122	.058	10
	15001	Western Fair Grounds											
	110000000000000000000000000000000000000	King/Rectory, London	362	.001	.010	.018	.027	.044	.074	.021	.108	.060	38
	18007	Concession Rd. 2											
		Lot A, Tiverton	324	.010	.018	.025	.032	.044	.071	.027	.122	.071	34
NEMP	22901	100m S of Hwy. 59											
IACIAII	22901	Long Point Prov. Park	341	.013	.023	.031	.041	.057	.086	.034	.114	.080	131
	22902	Tyneside/Chippewa Rd.	341	.013	.023	.001	.0-41	.037	.000	.034		.000	131
	LLUUL	Nanticoke	345	.006	.016	.024	.031	.043	.067	.025	.089	.065	9
		Hambone	343	.000	.010	.024	.001	.040	.007	.023	.003	,000	9

Table 10 — Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCEI 50	NTILES 70	90	99	ARITH- METIC MEAN		MUM 24-HR	NO. OF TIMES ABOVE CRITERIA 1 HR
WEST CENTRAL	22071	Experimetal Farm Simcoe	355	.011	.021	.030	.039	.055	.083	.032	.115	.075	122
	26029	Edna/Frederick St. Kitchener	352	.000	.008	.015	.023	.037	.062	.018	.096	.057	14
	27037	North Geneva St. St. Catharines	351	.002	.011	.019	.027	.040	.068	.021	.100	.061	20
	29025	Barton/Wentworth Hamilton	356	.000	.006	.013	.022	036	.061	.017	.088	.056	4
CENTRAL	31104	26 Breadalbane Toronto	358	.000	.004	011	.019	.031	.058	.014	110	045	10
	31105	Sherbourne Wilton St. Toronto	351	.000	.004	.009	.019	.024	.044	.011	.081	.036	1
	31120	Junction Triangle Perth Ave., Toronto	343	000	000	006	016	032	.061	012	126	047	28
	33003	Lawrence Kennedy Scarborough	354	.000	.004	.012	.020	.032	.060	.015	.111	.045	10
	34002 35003	Science Centre 770 Don Mills Rd., North York Elmcrest Road	346	.000	.004	.011	.019	.032	.062	014	.110	.041	22
	35033	Etobicoke Evans Arnold Ave.	346	000	004	.012	.021	.035	.063	016	115	048	20
	44008	Etobicoke Hwy. 2 North Shore Blvd. E.	335 354	.000	.002	.008	.015	.029	.056	.012	108	.043	4 15
	44015	Burlington Bronte Rd. Woburn Cres. Oakville	338	000	.007	.014	.021	032	.053	016	084	039	3
	45025	Ritson Rd. Olive Ave. Oshawa	355	.001	.009	017	.025	.035	.060	.019	113	.049	15
	46110	Queensway W. Huron- tario St., Mississauga	357	.000	.004	.012	.019	.030	.055	014	096	.040	7
	47035 48002	M. of A., 509 Victoria St. E. Alliston MTC Yard #9	119	003	012	020	028	046	.078	023	106	.053	25
	49010	Hwy. 47, Stouffville Hwy. 117 Paint Lake Rd.	343	.004	.014	021	028	040	063	023	.126	.069	20
		Dorset	338	.008	.018	.025	.033	044	.062	.027	095	.055	8
SOUTH EAST	51001	McDonald Gardens, Rideau Wurtemburg St., Ottawa	359	.001	.008	.015	.022	.033	.056	.017	.094	.060	13
	56051	Memorial Park York/Third St., Cornwall	362	.003	.012	.020	.028	.038	.064	.022	106	.070	13
NORTH WEST	63040	435 James St. S. Thunder Bay	361	.000	005	.012	.018	.026	.039	.013	.067	.036	NIL
NORTH EAST	71049	Land Reg. Office Queen St., Sault Ste. Marie	112	.000	.009	.015	.021	.035	.066	.017	.108	.050	7
	71057	Michipicoten Ave. Lot 38, Town of Mission	79	.000	.009	.019	.026	.038	.056	.020	.072	.039	NIL
	77016	Ash Street Water Tank Sudbury	357	.005	.010	.014	.018	028	052	.016	.099	.055	9

Table 11 Summary of Data: Total Reduced Sulphur (all values in p.p.b.)
No Existing Criteria

	STATION		NO. OF			PERCE	NTILES			ARITH- METIC	MAX	IMUM	
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR	24-HR	
SOUTH	12032	Morton Dock, Bedford											
WEST		Ojibway, Windsor	347	0.0	0.0	0.0	0.0	0.0	2.5	0.1	22	2	
	14062	242 Indian Rd. S.											
		Sarnia	361	0.0	0.0	0.0	0.0	0.0	2.7	0.2	14	2	
	18007	Concession Rd. 2											
		Lot A, Tiverton	347	0.0	0.0	0.0	0.0	0.0	1.0	0.1	15	3	
IEMP	22903	Cheapside Rd. Walpole Conc. 5											
		Nanticoke	306	0.0	0.0	0.0	0.4	1.4	3.8	0.6	9	4	
	22904	Walpole South P.S.											
		Sandusk Rd., Nanticoke	348	0.0	0.0	0.0	0.0	0.2	2.2	0.2	12	2	
	22905	Nanticoke Rd./Walpole Conc. 5											
		Nanticoke	308	0.0	0.0	0.0	0.0	0.8	2.4	0.3	7	2	
	22907	WNW03											
		Nanticoke Village	284	0.0	0.0	0.0	0.0	1.2	4.8	0.5	46	5	

Table 11 — Continued . . .

	STATION		NO. OF				NTILES			ARITH- METIC	MAX	MUM	
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR	24-HR	
WEST	22051	Holy Trinity Church											
CENTRAL	29008	Norton/Portage, Chippewa North Park	341	0.0	0.0	0.0	0.0	7.6	111.3	5.5	386	100	
		Hamilton	294	0.0	0.0	0.0	1.6	5.7	17.1	2.1	122	12	
	29025	Barton/Wentworth Hamilton	349	0.0	0.0	0.0	0.2	3.0	13.0	1.2	111	14	
CENTRAL	44015	Bronte Rd./Woburn Cres.											
JEN I I I I	44013	Oakville	359	0.0	0.0	0.0	0.0	3.6	20.3	1.4	85	34	
SOUTH	56051	Memorial Park											
EAST	56068	York/Third St., Cornwall 435 Second St. W.	354	0.0	0.0	0.0	0.9	5.0	23.3	2.0	101	30	
	30000	Cornwall	349	0.0	0.0	1.6	4.3	10.7	35.9	4.5	107	20	
NORTH	61026	56 King St.											
WEST	coooo	Dryden Charles Ch	312	0.0	0.0	0.0	0.0	4.0	40.4	2.1	139	28	
	62030	Portage/Church St. Fort Frances	249	0.0	0.0	0.0	3.2	35.3	170.6	12.0	279	129	
	62032	Cemetery, Colonization Rd. W., Fort Frances	269	0.0	0.0	0.0	0.0	5.7	33.7	2.1	99	20	
	62051	Boise Cascade											
	62052	Victoria Ave., Fort Frances 262 Church St.	119	0.0	0.0	0.0	0.0	8.0	71.3	3.6	163	84	
	63034	Fort Frances Peninsula Bldg.	71	0.0	0.0	0.0	0.0	10.0	51.2	3.2	123	34	
		Marathon	12	0.0	0.0	0.0	0.0	0.0	10.0	0.3	14	2	
	63046	Can-Car Bldg. Montreal St., Thunder Bay	299	0.0	0.0	0.0	0.0	3.0	13.9	1.0	36	7	
	63084	Recreation Centre											
	63090	Red Rock St. Martin School	292	0.0	0.0	0.0	0.0	6.3	119.1	5.0	339	112	
NORTH	72063	Terrace Bay Municipal Garage	155	0.0	0.0	0.0	0.0	0.0	11.6	0.6	50	9	
EAST	72063	Smooth Rock Falls	109	0.0	0.0	0.0	0.6	4.7	29.7	2.0	81	32	

Table 12 Summary of Data: Nitrogen Dioxide (all values in p.p.m.)
Ontario Criteria – 1 Hour Average: 0.20 p.p.m.; 24-Hour Average: 0.10 p.p.m.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC MEAN	MAX 1-HR	IMUM 24-HR	ABOVE (TIMES CRITERIA 24-HR
SOUTH	12008	467 University Ave. W.												
WEST		Windsor	364	.008	.015	.021	.029	.043	.071	.029	.14	.09	NIL	NIL
	14064	Centennial Park												
		Front St. CN Tracks, Sarnia	359	.001	.007	.014	.023	.038	.065	.022	.25	.09	1	NIL
	15001	Western Fair Grounds												
		King/Rectory, London	362	.001	.007	.014	.020	.034	.057	.021	.11	.05	NIL	NIL
WEST	22071	Experimental Farm												
CENTRAL		Simcoe	338	.000	.000	.004	.008	.017	.036	.010	.07	.04	NIL	NIL
	22086	Cheapside Rd., 3 km S of												
		Hwy. 3, Nanticoke	358	.000	.000	.002	.006	.013	.029	.007	.09	.04	NIL	NIL
NEMP	22901	100 m S. Hwy 59												
1,120,100		Long Point Prov. Park	353	.002	.003	.005	.008	.014	.028	.007	.05	.03	NIL	NIL
	22902	Tyneside/Chippewa Rd.									1000	1310	2507	1000000
		Nanticoke	336	.002	.004	.007	.011	.020	.041	.010	.07	.04	NIL	NIL
	22906	Sandusk Rd., Btwn Walpole												
		Conc. 4/5, Sandusk	160	.001	.004	.008	.012	.019	.036	.010	.07	.02	NIL	NIL
	26029	Edna/Frederick St.												
		Kitchener	354	.004	.013	.021	.029	.044	.068	.028	.11	.06	NIL	NIL
	27037	North/Geneva St.												
		St. Catharines	332	.000	.006	.012	.019	.031	.053	.019	.09	.06	NIL	NIL
	29008	North Park												
	02-02-02-02-02-02-02-02-02-02-02-02-02-0	Hamilton	362	.000	.010	.019	.028	.041	.066	.025	.10	.07	NIL	NIL
	29025	Barton/Wentworth	250	005						***	120120	7272		****
		Hamilton	359	.005	.015	.024	.033	.047	.070	.031	.11	.08	NIL	NIL

Table 12 — Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC MEAN	MAX 1-HR	IMUM 24-HR		TIMES CRITERIA 24-HR
TEGION	NOMBER	LOCATION	DATO							III EAN				
CENTRAL	31104	26 Breadalbane												
CENTRAL	31104	Toronto	359	.004	.013	.019	.028	.042	.073	.027	.15	.09	NIL	NIL
	31105	Sherbourne/Wilton St.	555	.004	.013	.013	.020	.042	.075	.027	.15	.00	INIL	1400
	31103	Toronto	363	.008	.017	.025	.033	.047	.076	.032	.15	.08	NIL	NIL
	31120	Junction Triangle	505	.000	.017	.023	.000	.047	.070	.002	.,9	.00	1412	1010
	01120	Perth Ave., Toronto	267	.003	.011	.018	.027	.043	.067	.026	.11	.07	NIL	NIL
	33003	Lawrence/Kennedy	201	.000	.011	.010	.027	.0.10	.007	.020	2.103	.07	1416	14112
	00000	Scarborough	348	.001	.010	.018	.027	.040	.066	.025	.15	.08	NIL	NIL
	34002	Science Centre	0.10	.001	.010	.010	.027	.0 10	.000	.ozo		.00	10.411	
	04002	770 Don Mills Rd., North York	351	.003	.010	.015	.022	.033	.053	.022	.17	.07	NIL	NIL
	34007	Bathurst/Wilson	007	.000	.0.0	.0.0	JULE	.000	.000	.022			1111	
	0.00.	North York	331	.002	.013	.025	.038	.063	.109	.034	.19	.12	NIL	NIL
	35003	Elmcrest Rd.	001	.002		.020	.000	.000		.007				
		Etobicoke	359	.000	.006	.013	.022	.037	.065	.021	.14	.06	NIL	NIL
	35033	Evans/Arnold Ave.				110000000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1000	1555511		0.7.7	100.00	1515
	00000	Etobicoke	351	.010	.018	.025	.033	.047	.075	.032	.12	.07	NIL	NIL
	44008	Hwy. 2/North Shore Blvd. E.	2.7											
		Burlington	341	.001	.005	.010	.018	.033	.051	.019	.09	.06	NIL	NIL
	44015	Bronte Rd. Woburn Cres.	-	11.000	G (1903) (190	1000.0100		200000000000000000000000000000000000000	100000000	2000-0000	2000	3,100,100	10350000	11/3/100
	CANDODO POLO	Oakville	350	.000	.005	.012	.019	.031	.048	.018	.08	.05	NIL	NIL
	45025	Ritson Rd./Olive Ave.												
		Oshawa	358	.000	.005	.012	.021	.036	.059	.020	.11	.06	NIL	NIL
	46110	Queensway West/Huron-												
		tario St., Mississauga	348	.005	.014	.020	.027	.039	.060	.026	.11	.06	NIL	NIL
SOUTH	51001	McDonald Garden												
EAST		Rideau/Wurtemburg St., Ottawa	364	.000	.001	.007	.015	.029	.055	.015	.09	.05	NIL	NIL
	56051	Memorial Park												
		York/Third St., Cornwall	336	.000	.000	.003	.008	.019	.046	.010	.09	.05	NIL	NIL
NORTH	77016	Ash Street Water Tank												
EAST		Sudbury	354	.000	.000	.000	.004	.012	.033	.006	.10	.03	NIL	NIL

Table 13 Summary of Data: Nitric Oxide (all values in p.p.m.)
No Ontario Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC MEAN	MAX 1-HR	IMUM 24-HR	
SOUTH	12008	467 University Ave. W.											
WEST	12000	Windsor	362	.000	.000	.000	.005	.027	.131	.011	.38	.14	
	14064	Centennial Park											
		Front St./CN Tracks, Sarnia	357	.000	.000	.000	.005	.017	.075	.009	.69	.15	
	15001	Western Fair Grounds											
		King/Rectory, London	357	.000	.000	.001	.009	.033	.134	.015	.44	.12	
WEST	22071	Experimental Farm											
CENTRAL		Simcoe	335	.000	.000	.000	.000	.004	.013	.002	.08	.02	
	22086	Cheapside Rd., 3 km S of											
		Hwy. 3, Nanticoke	347	.000	.000	.000	.000	.000	.010	.001	.17	.03	
NEMP	22901	100 m S. Hwy 59											
		Long Point Prov. Park	355	.000	.000	.000	.001	.003	.011	.001	.05	.01	
	22902	Tyneside/Chippewa Rd.											
		Nanticoke	348	.000	.000	.002	.004	.009	.039	.004	.13	.04	
	22906	Sandusk Rd., Btwn Walpole										In this country.	
		Conc. 4/5, Sandusk	170	.000	.001	.002	.004	.008	.027	.004	.14	.02	
WEST	26029	Edna/Frederick St.											
CENTRAL		Kitchener	335	.000	.000	.003	.023	.111	.364	.038	.91	.35	
	27037	North/Geneva St.											
		St. Catharines	332	.000	.000	.000	.000	.019	.119	.008	.72	.10	
	29008	North Park	100000	-222					050	050		10	
		Hamilton	360	.000	.000	.023	.066	.135	.256	.052	.59	.19	
	29025	Barton/Wentworth	004	000	000	005	040	000	101	004	44	16	
		Hamilton	364	.000	.000	.005	.018	.062	.181	.024	.44	.16	

Table 13 — Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC MEAN	MAX 1-HR	IMUM 24-HR
CENTRAL	31104	26 Breadalbane										
		Toronto	359	.000	.000	.007	.017	.049	.180	.022	.67	.23
	31105	Sherbourne Wilton St.										
		Toronto	365	.000	.000	.011	.034	.091	.260	.036	.81	.29
	31120	Junction Triangle										
		Perth Ave., Toronto	274	.000	.000	.005	.015	.052	.208	.023	.72	.29
	33003	Lawrence Kennedy										
		Scarborough	346	.000	.000	.003	.021	.073	.263	.028	.84	.24
	34002	Science Centre										
		770 Don Mills Rd., North York	348	.000	.006	.015	.028	.083	.257	.036	.63	.27
	34007	Bathurst Wilson										
		North York	332	.000	.004	.037	.116	.244	.484	.091	.82	.49
	35003	Elmcrest Rd.										
		Etobicoke	352	.000	.000	.001	.014	.070	.303	.027	.75	.33
	35033	Evans/Arnold Ave.										
		Etobicoke	351	.000	.009	.028	.061	.148	408	.061	.83	25
	44008	Hwy. 2/North Shore Blvd. E.		7555			0.50		2022	0.545.00		
		Burlington	354	.000	.004	.012	.023	.060	.236	.029	.59	.18
	44015	Bronte Rd./Woburn Cres.			.001	1.00				,0.0		O NAME
		Oakville	351	.000	.000	.000	.006	.039	.180	.015	.43	.14
	45025	Ritson Rd./Olive Ave.	001	.000	.000			.000		.010	. 10	
	7.55.07.07.62.07	Oshawa	351	.000	.000	.000	.009	.042	.173	.017	.64	.17
	46110	Queensway West Huron-	001	.000	.000	.000	.000	.042		.017	.04	2475.00
	40110	tario St., Mississauga	351	.000	.000	.003	.015	.064	.246	.025	.81	.24
		tario ot., mississauga	001	.000	.000	.003	.013	.004	.2.40	.023	.01	.27
SOUTH	51001	McDonaid Garden										
EAST	31001	Rideau Wurtemburg St., Ottawa	364	.000	.000	.000	.006	.030	.144	.013	.39	.09
1,131	56051	Memorial Park	504	.000	.000	.000	.000	.000		.010	.03	.03
	30031	York Third St. Cornwall	365	.000	.000	.000	.000	.007	.079	.005	.33	.08
		EDIN ITHO SI., CONWAN	303	.000	.000	.000	.000	.007	.075	.003	.55	.00
NORTH	77016	Ash Street Water Tank										
EAST	77010	Sudbury	352	.000	.000	.000	.002	.010	.077	.007	.46	.08
EAST		Sudbury	332	.000	.000	.000	.002	.010	.077	.007	.46	.08

Table 14 Summary of Data: Nitrogen Oxides (all values in p.p.m.)
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC MEAN	MAX 1-HR	MUM 24-HR
SOUTH	12008	467 University Ave. W.										
VEST	12000	Windsor	361	.008	.017	.026	.038	.069	.189	.040	.44	.23
12.700.700 N	14064	Centennial Park	2.5.5.0			10000	1,500,50	1000000	200			
		Front St./CN Tracks, Sarnia	355	.001	.009	.018	.031	.057	.127	.031	.78	.21
	15001	Western Fair Grounds										
		King/Rectory, London	357	.002	.010	.020	.035	.068	.174	.036	.46	.16
VEST	22071	Experimental Farm										
CENTRAL		Simcoe	325	.000	.000	.005	.010	.021	.047	.012	.13	.05
	22086	Cheapside Rd., 3 km S of										
		Hwy. 3, Nanticoke	345	.000	.000	.002	.006	.015	.039	.008	.26	.07
NEMP	22901	100 m S. Hwy 59										
		Long Point Prov. Park	353	.000	.000	.003	.007	.013	.032	.008	.08	.04
	22902	Tyneside/Chippewa Rd.										
		Binbrooke West	341	.000	.002	.006	.011	.025	.070	.014	.16	.08
	22906	Sandusk Rd., Btwn Walpole										
		Conc. 4/5, Sandusk	99	.000	.004	.008	.014	.025	.062	.016	.17	.06
VEST	26029	Edna/Frederick St.										
ENTRAL		Kitchener	335	.004	.016	.030	.060	.152	.405	.065	.97	.41
	27037	North/Geneva St.										
		St. Catharines	312	.000	.007	.013	.023	.052	.163	.027	.74	.14
	29008	North Park										
		Hamilton	362	.000	.015	.052	.102	.172	.297	.076	.64	.24
	29025	Barton/Wentworth										
		Hamilton	359	.006	.021	.036	.055	.101	.255	.054	.95	.37

Table 14 — Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC MEAN	MAX 1-HR	MUM 24-HR	
CENTRAL	31104	26 Breadalbane	10013840	Nevaner	100000000	10 percentari	14000	7212707	1212/27	1500/90	5490	0.8028	
		Toronto	360	.007	.019	.032	.049	.091	.235	.049	.79	.32	
	31105	Sherbourne/Wilton St.						400	0.40	200		07	
		Toronto	365	.010	.026	.045	.072	.132	.319	.068	.91	.37	
	31120	Junction Triangle		000	0.40	000	0.17	004	050	0.40	7.5	00	
		Perth Ave., Toronto	267	.006	.018	.030	.047	.091	253	.049	.75	.32	
	33003	Lawrence/Kennedy		004	040	000	055	-200	201	050	0.4	20	
	0.4000	Scarborough	341	.001	.013	.030	.055	.111	.321	.053	.91	.32	
	34002	Science Centre	0.40	011	000	000	OFF	110	205	050	.77	.33	
	0.4007	770 Don Mills Rd., North York	348	.011	.023	.036	.055	.116	.295	.058	.11	.33	
	34007	Bathurst/Wilson	000	004	OOF	070	160	.291	.563	.124	.93	.56	
	05000	North York	332	.004	.025	.073	.163	.291	.563	.124	.93	.30	
	35003	Elmcrest Rd.	357	.000	.008	.021	.042	.106	.347	.048	.81	.38	
	05000	Etobicoke Evans/Arnold Ave.	357	.000	.008	.021	.042	.106	.347	.046	.01	.30	
	35033	Etobicoke	348	.017	.039	.063	.097	.189	.467	.094	.93	.30	
	44000		348	.017	.039	.063	.097	.109	.467	.094	.93	.30	
	44008	Hwy. 2/North Shore Blvd. E.	336	.007	.018	.029	.045	.089	.266	.047	.61	.23	
	44045	Burlington	336	.007	.010	.029	.045	.009	.200	.047	.0.1	.23	
	44015	Bronte Rd./Woburn Cres. Oakville	347	.000	.006	.016	.030	.070	.212	.033	.46	.17	
	45005	Ritson Rd./Olive Ave.	347	.000	.006	.010	.030	.070	.212	.033	.40	.17	
	45025	Oshawa	356	.000	.007	.019	.038	.079	.228	.038	.68	.22	
	46440	Queensway West/Huron-	330	.000	.007	.019	.036	.079	.220	.036	.00	.22	
	46110	tario St., Mississauga	348	.006	.017	.029	.048	.102	.291	.051	.87	.29	
		tario St., Mississauga	340	.000	.017	.023	.040	.102	.231	.031	.07	.23	
SOUTH	51001	McDonald Garden											
EAST	31001	Rideau/Wurtemburg St., Ottawa	363	.000	.002	.010	.025	.063	.189	.028	.45	.12	
LAGI	56051	Memorial Park	303	.000	,002	.010	.023	.000	. 100	.020	.40	. 1.62	
	30031	York/Third St., Cornwall	365	.000	.000	.004	.009	.030	.120	.015	.40	.10	
		TOTA THIRD OL., CONTWAIL	303	.000	.000	,007	.000	.000		.0.0	1.79		
NORTH	77016	Ash Street Water Tank											
EAST	17010	Sudbury	350	.000	.000	.001	.009	.026	.105	.012	.56	.10	
		- J	000										

Table 15 Summary of Data: Soiling Index – 1 Hour (all values are in COH's/1,000 ft.)

Ontario Criteria – 24-Hour Average – 1.0 COH's/1,000 ft. 1 Year Average – 0.5 COH's/1,000 ft.

INS – Indicates insufficient sample size to apply 1 year average criterion

	STATION	Se Asses Service General	NO. OF	(8.0%)	200		NTILES	0000	20000	ARITH- METIC		IMUM	NO. OF ABOVE C	RITERION
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR	24-HR	24-HR	1 YR
SOUTH	12008	467 University Ave. W.												
WEST		Windsor	362	.04	.19	.30	.46	.78	1.69	.43	3.3	1.6	6	NIL
	12016	College/South St.	***	-	4.0				. 70	Value	0.0			N.III
	0.000	Windsor	345	.04	.18	.28	.43	.77	1.70	.41	3.6	1.6	4	NIL
	14064	Centennial Park	000	00	05	10	24	5.0	1.07	.27	3.1	1.0	NIL	NIL
		Front St./CN Tracks, Sarnia	360	.00	.05	.19	.31	.56	1.07	.21	3.1	1.0	NIL	INIL
	15001	Western Fair Grounds	360	.00	.11	.22	.35	.63	1.28	.32	4.8	1.6	2	NIL
		King/Rectory, London	360	.00	210	.22	.35	.63	1.20	.32	4.0	1.0	2	INIL
WEST	22071	Experimental Farm												
CENTRAL		Simcoe	315	.00	.00	.12	.20	.35	.63	.18	1.1	0.7	NIL	NIL
	27037	North/Geneva St.												
		St. Catharines	362	.00	.12	.19	.29	.53	1.26	.29	3.2	1.4	2	NIL
	27049	Murray/Buchanan Ave.									and the contract.	150000000	1.000001	AND DESCRIPTION OF THE PERSON
		Niagara Falls	363	.00	.07	.16	.24	.40	.83	.22	2.3	0.9	NIL	NIL
	29008	North Park									0.07	0.2	- 22	
		Hamilton	356	.00	.17	.35	.62	1.06	1.75	.50	3.0	1.6	23	NIL
	29025	Barton/Wentworth						27722000		0/40000	127121	20.4	0.101	191
		Hamilton	363	.11	.25	.39	.63	1.16	2.12	.57	3.9	1.8	41	1
CENTRAL	31104	26 Breadalbane												
		Toronto	359	.03	.21	.33	.52	.88	1.58	.46	3.7	1.8	6	NIL
	31105	Sherbourne/Wilton St.												
		Toronto	355	.06	.23	.38	.59	1.01	1.92	.53	3.6	1.9	18	1
	33003	Lawrence/Kennedy												
		Scarborough	362	.00	.15	.25	.39	.72	1.49	.37	3.4	1.9	5	NIL
	34007	Bathurst/Wilson								117770	20470-2000	1100011000		
		North York	364	.00	.20	.39	.74	1.30	2.17	.60	3.6	2.3	52	1
	35003	Elmcrest Rd.			355	V25200	555	9220	Wester	752	020120	37/25	27	21
		Etobicoke	292	.00	.08	.19	.33	.69	1.53	.32	3.2	1.8	3	NIL
	35033	Evans/Arnold Ave.	04040277	17423420	0.000	1,479				****			14.4	
	72472460000	Etobicoke	302	.00	.19	.34	.55	.98	1.88	.49	3.0	1.7	11	NIL
	44015	Bronte Rd./Woburn Cres.							4.50	40	0.0	4.5	0	A111
	150000	Oakville	365	.00	.15	.27	.45	.80	1.56	.40	3.2	1.5	8	NIL
	45025	Ritson Rd./Olive Ave.					40	0.0	4.70	- 24	0.0		10	KIII
		Oshawa	353	.00	.15	.27	.46	.82	1.79	.41	3.9	1.7	10	NIL
					- 26									

Table 15 — Continued . . .

,	STATION		NO. OF			PERCE	NTILES			ARITH- METIC	100000000000000000000000000000000000000	IMUM	ABOVE C	
REGION	NUMBER	LOCATION	DAYS	10	30	50	70	90	99	MEAN	1-HR	24-HR	24-HR	1 YR
SOUTH	51001	McDonald Garden												
EAST		Rideau/Wurtemburg St., Ottawa	346	.00	.00	.08	.20	.41	98	.18	2.0	0.9	NIL	NIL
	56051	Memorial Park	2000000						.00		2.0	0.5	1412	THIC
		York Third St., Cornwall	364	.00	.00	.01	.17	.38	1.02	.16	2.4	1.0	NIL	NIL
NORTH	77016	Ash Street Water Tank												
EAST		Sudbury	361	.00	.00	.00	.13	.28	.78	.12	2.1	0.8	NIL	NIL
	77028	Government/Edward St.										878		
		Coniston	356	.00	.00	.06	.19	.40	1.08	.18	2.0	0.7	NIL	NIL
	77075	Kennedy St.												
		New Sudbury	361	.00	.00	.04	.17	.37	1.27	.17	2.9	0.9	NIL	NIL

Table 16 Summary of Data: Soiling Index – 2 Hour (all values are in COH's/1,000 ft.)

Ontario Criteria – 24-Hour Average – 1.0 COH's/1,000 ft. 1 Year Average – 0.5 COH's/1,000 ft.

INS – Indicates insufficient sample size to apply 1 year average criterion

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCE 50	NTILES 70	90	99	ARITH- METIC MEAN	MAX 2-HR	IMUM 24-HR		TIMES RITERION 1 YR
SOUTH	15000	202 5 - 4 - 01												
WEST	15003	362 Dundas St. London	359	.00	.02	.15	.26	.46	.83	.23	2.1	0.8	NIL	NIL
WEST CENTRAL	22086	Cheapside Rd., 3 km S of Hwy. 3, Nanticoke	365	.00	.00	.00	.12	.26	.59	.11	1.1	0.5	NIL	NIL
NEMP	22901	100 m S of Hwy. 59 Long Point Prov. Park	309	.00	.00	.09	.17 .	.32	.62	.15	1.2	0.5	NIL	AIII
	22902	Tyneside/Chippewa Rd. Binbrooke West	249	.00	.00	.06	.16	.31	.59	.14	1.1	0.5	NIL	NIL NIL
				,,,,,		.00		.0.1	.55	- 1 - m	66	0.5	MIL	INIL
WEST CENTRAL	26029	Edna/Frederick St. Kitchener	354	.00	.00	.14	.28	.59	1.36	.25	2.6	4.4	2	
CENTIAL	27051	Holy Trinity Church	334	.00	.00	.14	.26	.59	1.36	.25	2.6	1,4	2	NIL
		Norton/Portage, Chippewa	317	.00	.00	.12	.21	.48	.91	.20	1.8	0.7	NIL	NIL
	28025	Farquahar/Wyndham St.	004				9780	00000		0.0520	120121			
	29001	Guelph Hughson Hunter	364	.00	.00	.06	.16	.36	.70	.15	2.0	0.5	NIL	NIL
	23001	Hamilton	306	.00	.05	.16	.33	.66	1.36	.30	2.5	1.2	3	NIL
	29009	Kenilworth		21,000					,,,,,	.00	2.0			
	00044	Hamilton	330	.00	.01	.14	.22	.49	1.05	.22	2.4	0.9	NIL	NIL
	29011	Burlington/Leeds Hamilton	302	.00	10	21	40	0.0		20				
	29012	Burlington/Wellington	302	.00	.12	.21	.42	.86	1.74	.39	2.9	1.6	8	NIL
	LOUIL	Hamilton	356	.00	.07	.16	.31	.58	1.15	.27	2.0	0.9	NIL	NIL
	29015	Merrick St.			7.500	0.030	270				2.0	0.5	THIC	14112
	00047	Hamilton	357	.00	.00	.13	.21	.48	1.15	.22	2.0	1.1	1	NIL
	29017	Chatham/Frid Hamilton	345	.00	.10	.18	.35	.69	4 00	20				
	29067	Hughson St. N.	343	.00	.10	.10	.35	.69	1.33	.32	1.8	1.2	3	NIL
		Hamilton	260	.00	.02	.16	.30	.55	.96	.26	2.4	0.7	NIL	NIL
CENTRAL	31120	Junction Triangle												
OLIVITORE	01120	Perth Ave., Toronto	364	.00	.00	.15	.27	.63	1.49	.27	3.8	2.3	6	NIL
	33019	Met Branch, Scarborough						.00	1.45		5.0	2.5	U	MIL
		Bluffs, Scarborough	357	.00	.00	.11	.19	.39	.76	.17	1.4	0.7	NIL	NIL
	34002	Science Centre	205	00					-		200			
	35005	770 Don Mills Rd., North York Queensway Hospital	365	.00	.00	.13	.22	.50	.99	.22	2.4	1.5	2	NIL
	55005	Etobicoke	278	.00	.05	.17	.35	.72	1.50	.32	3.1	1.6	8	NIL
	35008	22 Thirty-Sixth St.			.00	2.7.5	.00		1.50		5.1	1.0	0	IVIL
	\$70.00 A TOTAL OF	Etobicoke	365	.00	.00	.13	.22	.48	1.13	.21	2.2	0.9	NIL	NIL
	35050	MOE Lab			2.2									
	44008	Resources Rd., Etobicoke Hwy. 2/North Shore Blvd. E.	360	.00	.03	.16	.26	.60	1.26	.27	2.8	1.3	2	NIL
	44000	Burlington	364	.00	.06	.16	.30	.59	1.23	.28	2.1	1.1	1	NIL
	45024	206 Eulalie St.	001	.00	.00	.10	.50	.53	1.20	.20	2.1	1.1		INIL
		Oshawa	360	.00	.00	.13	.24	.53	1.10	.23	2.2	0.8	NIL	NIL
	46025	Mississauga Public Library	272	12121	12927	1222	70.20	200.000						
	46033	Mississauga Bramalea Fire Hall	349	.00	.00	.09	.18	.39	.95	.18	2.4	1.3	1	NIL
	40033	Bramalea	329	.00	.00	.05	.17	.37	.78	.16	1.5	0.6	NIL	NIL
	46100	Public School, Green	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.00					1.5	0.0	INIL	IVIL
		Glade Rd., Mississauga	365	.00	.00	.05	.15	.35	.73	.15	1.3	0.5	NIL	NIL

Table 16 — Continued . . .

REGION	STATION	LOCATION	NO. OF	10	30	PERCE 50	NTILES	90	99	ARITH- METIC MEAN	MAX 2-HR	IMUM 24-HR	NO. OF ABOVE CI 24-HR	
TEGIOI4	HOMBEN	EGGATION	DATE							mezar.			24.111	
CENTRAL	46110	Queensway West/Huron-												
OZ. T. T. T.		tario St., Mississauga	362	.00	.00	.15	.26	.61	1.26	.26	2.8	0.9	NIL	NIL
	48002	MTC Yard #9												
		Hwy. 47, Stouffville	360	.00	.00	.04	.15	.35	.76	.14	1.8	0.7	NIL	NIL
	59006	City Hall												
		500 George St., Peterborough	319	.00	.00	13	.21	.48	1.19	.22	2.2	0.9	NIL	NIL
NORTH	63040	435 James St. S.												
WEST		Thunder Bay	326	.00	.00	.07	.16	.36	.69	.15	1.8	0.4	NIL	NIL

Table 17 Summary of Data: Total Suspended Particulate Matter (all values in micrograms per cubic meter) Ontario Criteria – 24-Hour Average: 120 ug/m³; Annual Geometric Mean: 60 ug/m³ INS – Indicates insufficient sample size to apply annual criterion

12002 City Half	DEOLG	STATION	LOCATION	NO. OF	16	00	PERCE		00		MAX.	ARITH.	GEOM.		ERIA
WEST 64 West St., Goderich 57 20 38 46 61 97 222 276 56 46 2 NIL 1200 15 Thomas St. St. Marys 1200 20 Hallor Ava., Windsor 1200 20 Hallor Ava., Windsor 1200 5730 Riverside Dr. E. Windsor 1200 87 Thomas St. 1200 86 Thomas St. 1200 87 Thomas S	HEGION	NUMBER	LUCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HH	TH
WEST 64 West St., Goderich 57 20 38 46 61 97 222 276 56 46 2 NIL 1200 15 Thomas St. St. Marys 1200 20 Hallor Ava., Windsor 1200 20 Hallor Ava., Windsor 1200 5730 Riverside Dr. E. Windsor 1200 87 Thomas St. 1200 86 Thomas St. 1200 87 Thomas S	SOUTH	10015	PLIC Bldg												
11001 35 Thomas St. St. Marys 56 30 42 50 67 106 213 243 64 54 5 NILL St. Marys 56 30 42 50 67 106 213 243 64 54 5 NILL St. Marys 44 Windsor Ave., Windsor 55 36 48 58 90 116 121 51 45 1 NILL 120		10013		57	20	38	46	61	97	222	276	56	46	2	NII
Si. Marys	WEST	11001		5,	2.0	50		0.	0,		2.0	50		-	
12002 City Hall		,,,,,,		56	30	42	50	67	106	213	243	64	54	5	NIL
12005 7730 Riverside Dr. E. 53 21 35 48 58 90 116 121 51 45 1 NIL		12002													
Windsor Same			444 Windsor Ave., Windsor	55	36	48	59	74	120	203	324	70	62	6	1
12008 A67 University Ave W. W. Windsor S21 31 44 55 71 100 159 182 61 55 17 NIL Mindsor Mindso		12005	7730 Riverside Dr. E.												
Mindsor 321 31 44 55 71 100 159 182 61 55 17 NIL				53	21	35	48	58	90	116	121	51	45	1	NIL
1200 S725 Riverside Dr. E Little River S3 27 35 46 58 80 130 140 52 46 2 NILL River Tecumseh Sewage Stn. Tecumseh Sewage Stn. S4 S5 S2 33 40 46 69 102 108 44 39 NIL NILL River N		12008			V2/33	210	122	200	0.2.21	2/222	7752	120	22		200
Little River 53 27 35 46 58 80 130 140 52 46 2 NIL Carbinary				321	31	44	55	71	100	159	182	61	55	17	NIL
1201 Tecumesh Sewage Str. Manning Rd. Windsor 55 22 33 40 46 69 102 108 44 39 NIL NI		12009		50	0.7	0.5	40		00	100	4.40	50	46	0	KIII
Manning Rd. Windsor 55 22 33 40 46 69 102 108 44 39 NIL NIL PALE 12014 Univ. Met Stn.		10010		53	21	35	46	58	80	130	140	52	46	2	NIL
12013 Filtration Plant, 3665 Wyandord of St. E., Windsor 56 37 50 62 92 127 246 249 79 68 10 1		12010		55	22	33	40	46	60	102	108	44	30	NIII	NIII
dotte St. E. Windsor 56 37 50 62 92 127 246 249 79 68 10 1		12012		33	22	33	40	40	09	102	100	***	39	MIL	INIL
12014		12013		56	37	50	62	92	127	246	249	79	68	10	1
College Calif. St., Windsor		12014		50		50	.02	JE		240	240	, ,	00		1.00
12015 Sewage Plant Helw, 18 Prospect, Windsor 51 43 58 72 82 106 160 186 75 70 4 1 12016 College South St. Windsor 55 40 54 60 74 112 170 204 69 63 3 1 12032 Morton Dock Bedford Olibway, Windsor 55 38 53 59 72 104 150 173 66 61 2 1 12036 1802 George St. Windsor 54 32 43 53 65 87 135 161 58 53 1 NIL 12037 3225 California St. Windsor 51 19 34 44 55 80 120 126 47 39 1 NIL 12039 Dougall E.C. Rowe W. Windsor 54 29 46 52 72 97 140 145 61 53 3 NIL INS 12033 415 Front St. Amherstburg 26 22 27 30 45 59 92 94 39 34 NIL INS 13023 RI # I. Behind The Barn, Blenheim 10 28 30 39 45 50 97 104 43 39 NIL INS 13023 RI # I. Behind The Barn, Blenheim 11 27 36 46 54 68 127 136 52 45 1 INS 1401 1401 General Hospital 220 Minton St. Samia 58 28 22 25 36 45 67 131 145 42 36 7 NIL INS 1403 RI # I. Samia 58 28 22 25 36 45 67 131 145 42 36 2 NIL		12011		44	32	58	71	88	130	184	186	79	71	5	1
12016 College South St. Windsor 55 40 54 60 74 112 170 204 69 63 3 1		12015													
Windsor 55 40 54 60 74 112 170 204 69 63 3 1			Hwy. 18/Prospect, Windsor	51	43	58	72	82	106	160	186	75	70	4	1
12032 Morton Dock Bedford Ojibway, Windsor 55 38 53 59 72 104 150 173 66 61 2 1		12016	College/South St.												
Bedford Ojibway, Windsor 55 38 53 59 72 104 150 173 66 61 2 1				55	40	54	60	74	112	170	204	69	63	3	1
12036 1802 George St. Windsor 54 32 43 53 65 87 135 161 58 53 1 NIL		12032			707-00-0	V01-52-1	2000		1760000	and same of	rancaran		19701	-	17.50
Windsor 54 32 43 53 65 87 135 161 58 53 1 NIL				55	38	53	59	72	104	150	173	66	61	2	1
12037 3225 California St. Windsor 51 19 34 44 52 80 120 126 47 39 1 NIL 12039 Dougall E.C. Rowe W. Windsor 54 29 46 52 72 97 140 145 61 53 3 NIL 12053 415 Front St. Amherstburg 26 22 27 30 45 59 92 94 39 34 NIL INS 13003 Post Office 10 Center St. Chatham 44 28 41 48 56 69 108 109 51 48 NIL NIL 13023 RR #1. Behind The Barn, Blenheim 10 28 30 39 45 50 97 104 43 39 NIL INS 13024 Jackson Farm Blenheim 11 27 36 46 54 68 127 136 52 45 1 INS 13025 RR #2. Behind The Barn, Merlin 10 25 30 38 46 58 64 65 40 37 NIL INS 14001 General Hospital 220 Minton St., Sarnia 58 28 32 48 58 94 111 112 52 46 NIL NIL 14030 RR #1. West of The House, Corunna 14031 RR #1. West of The House, Corunna 14031 RR #1. West of The House, Corunna 14031 RR #1. West Side of Barn, Mooretown 58 20 30 38 47 69 94 139 160 56 50 2 NIL 14054 Sarnia Yacht Club Port Edward, Sarnia 57 30 38 47 69 94 139 160 56 50 2 NIL 14062 242 Indian Rd. S. Sarnia 14064 Centennial Park Front St. CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL 14064 Centennial Park Front St. CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL 14064 Centennial Park Front St. CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL 14064 Centennial Park Front St. CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL 14064 Centennial Park Front St. CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL 14064 Centennial Park Front St. CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL 14064 Centennial Park Front St. CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL 14064 Centennial Park		12036												1,1	
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12053		12039		54	29	46	52	72	97	140	145	61	53	3	NIL
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13023 RR #1, Behind The Barn, Blenheim 10 28 30 39 45 50 97 104 43 39 NIL INS 13024 Jackson Farm Blenheim 11 27 36 46 54 68 127 136 52 45 1 INS 13025 RR #2, Behind The Barn, Merlin 10 25 30 38 46 58 64 65 40 37 NIL INS 14001 General Hospital 220 Minton St., Sarnia 58 28 32 48 58 94 111 112 52 46 NIL NIL 14016 Opposite Lambton GS Hwy. 40, Courtright 339 19 28 36 47 70 130 188 41 36 5 NIL 14030 RR #1, West of The House, Corunna 58 22 25 36 45 67 131 145 42 36 2 NIL 14031 RR #1, West Side of Barn, Mooretown 58 20 30 38 47 69 94 139 160 56 50 2 NIL SOUTH WEST 14054 Sarnia Yacht Club Port Edward, Sarnia 57 30 38 47 69 94 139 160 56 50 2 NIL 14059 St. Clair Bidg. Hwy. 40, Corunna 58 22 31 39 49 70 102 105 43 39 NIL NIL 14062 242 Indian Rd. S. Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St. CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		13003	Post Office												
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13024 Jackson Farm Blenheim 11 27 36 46 54 68 127 136 52 45 1 INS 13025 RR #2, Behind The Barn, Merlin 10 25 30 38 46 58 64 65 40 37 NIL INS 14001 General Hospital 220 Minton St., Sarnia 58 28 32 48 58 94 111 112 52 46 NIL NIL 14016 Opposite Lambton GS Hwy. 40, Courtright 339 19 28 36 47 70 130 188 41 36 5 NIL 14030 RR #1, West of The House, Corunna 58 22 25 36 45 67 131 145 42 36 2 NIL 14031 RR #1, West Side of Barn, Mooretown 58 20 30 38 43 73 161 211 44 37 2 NIL SOUTH WEST 14054 Sarnia Yacht Club Port Edward, Sarnia 57 30 38 47 69 94 139 160 56 50 2 NIL 14062 242 Indian Rd, S. Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		13023													
Blenheim				10	28	30	39	45	50	97	104	43	39	NIL	INS
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The Barn, Merlin 10 25 30 38 46 58 64 65 40 37 NIL INSTALL INS				11	27	36	46	54	68	12/	136	52	45	1	INS
14001 General Hospital		13025		10	OF.	20	20	40	50	64	CE	40	27	NIII	INIC
220 Minton St., Sarnia 58 28 32 48 58 94 111 112 52 46 NIL NIL 14016 Opposite Lambton GS Hwy, 40, Courtright 339 19 28 36 47 70 130 188 41 36 5 NIL 14030 RR #1, West of The House, Corunna 58 22 25 36 45 67 131 145 42 36 2 NIL 14031 RR #1, West Side of Barn, Mooretown 58 20 30 38 43 73 161 211 44 37 2 NIL SOUTH 14054 Sarnia Yacht Club Port Edward, Sarnia 57 30 38 47 69 94 139 160 56 50 2 NIL 14059 St. Clair Bidg. Hwy, 40, Corunna 58 22 31 39 49 70 102 105 43 39 NIL NIL 14062 242 Indian Rd. S. Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		14001		10	25	30	36	46	36	64	65	40	37	MIL	IIVS
14016 Opposite Lambton GS		14001		58	28	32	48	58	94	111	112	52	46	NII	NII
Hwy. 40, Courtright 339 19 28 36 47 70 130 188 41 36 5 NIL 14030 RR #1, West of The House, Corunna 58 22 25 36 45 67 131 145 42 36 2 NIL 14031 RR #1, West Side of Barn, Mooretown 58 20 30 38 43 73 161 211 44 37 2 NIL SOUTH WEST Port Edward, Sarnia 57 30 38 47 69 94 139 160 56 50 2 NIL 14059 St. Clair Bldg. Hwy. 40, Corunna 58 22 31 39 49 70 102 105 43 39 NIL NIL 14062 242 Indian Rd. S. Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		14016		30	20	JE	40	50	34		112	J.	40	1.411	1416
14030 RR #1, West of The House, Corunna 58 22 25 36 45 67 131 145 42 36 2 NIL 14031 RR #1, West Side of Barn, Mooretown 58 20 30 38 43 73 161 211 44 37 2 NIL SOUTH WEST 14054 Sarnia Yacht Club Port Edward, Sarnia 57 30 38 47 69 94 139 160 56 50 2 NIL 14059 St. Clair Bldg. Hwy. 40, Corunna 58 22 31 39 49 70 102 105 43 39 NIL NIL 14062 242 Indian Rd. S. Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		14010		339	19	28	36	47	70	130	188	41	36	5	NIL
The House, Corunna 58 22 25 36 45 67 131 145 42 36 2 NIL 14031 RR #1, West Side of Barn, Mooretown 58 20 30 38 43 73 161 211 44 37 2 NIL SOUTH WEST 14054 Sarnia Yacht Club Port Edward, Sarnia 57 30 38 47 69 94 139 160 56 50 2 NIL 14059 St. Clair Bldg. Hwy. 40, Corunna 58 22 31 39 49 70 102 105 43 39 NIL NIL 14062 242 Indian Rd. S. Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		14030			2.50	15.5	17.7	(27,70)	0.50	D100	0.5670			.75	1965110
SOUTH 14054 Sarnia Yacht Club Port Edward, Sarnia S 20 30 38 43 73 161 211 44 37 2 NIL SOUTH WEST Port Edward, Sarnia 57 30 38 47 69 94 139 160 56 50 2 NIL 14059 St. Clair Bldg. Hwy. 40, Corunna 58 22 31 39 49 70 102 105 43 39 NIL NIL 14062 242 Indian Rd. S. Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		75,7-8-8-8		58	22	25	36	45	67	131	145	42	36	2	NIL
SOUTH WEST Port Edward, Sarnia 9 30 38 47 69 94 139 160 56 50 2 NIL 14059 St. Clair Bldg. Hwy. 40, Corunna 58 22 31 39 49 70 102 105 43 39 NIL NIL 14062 242 Indian Rd. S. Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		14031	RR #1, West												
WEST Port Edward, Sarnia 57 30 38 47 69 94 139 160 56 50 2 NIL 14059 St. Clair Bldg.			Side of Barn, Mooretown	58	20	30	38	43	73	161	211	44	37	2	NIL
WEST Port Edward, Sarnia 57 30 38 47 69 94 139 160 56 50 2 NIL 14059 St. Clair Bldg.			0												
14059 St. Clair Bldg. Hwy. 40, Corunna 58 22 31 39 49 70 102 105 43 39 NIL NIL 14062 242 Indian Rd. S. Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		14054		67	20	20	47	60	04	120	160	56	50	2	NIII
Hwy. 40, Corunna 58 22 31 39 49 70 102 105 43 39 NIL NIL 14062 242 Indian Rd. S. Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL	WEST	14050		5/	30	38	47	69	94	139	100	30	30	2	MIL
14062 242 Indian Rd. S. Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		14059		58	22	31	39	49	70	102	105	43	39	NIL	NIL
Sarnia 57 27 33 42 61 85 126 128 51 46 2 NIL 14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		14062		30		3.	00	40	, 0	102	.00	-10	00		
14064 Centennial Park Front St./CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		. 4002		57	27	33	42	61	85	126	128	51	46	2	NIL
Front St. CN Track, Sarnia 56 33 43 55 77 113 163 175 66 58 4 NIL		14064			-36	-		25	3.3						
		5 7 53 22		56	33	43	55	77	113	163	175	66	58	4	NIL

Table 17 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCEI 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES CRIT 24-HR	ERIA
	14151	St. Clair River,												
	15001	David Front St., Sarnia Western Fair Grounds	54	26	35	51	75	102	162	212	60	51	2	NIL
		King/Rectory, London	56	29	36	52	70	106	153	155	60	51	4	NIL
	15003	362 Dundas St. London	57	21	32	39	49	64	91	94	42	38	NIL	NIL
	15006	16 Alexandria St. St. Thomas	54	24	36	50	75	136	241	298	69	55	8	NIL
	15007	Fern Ford 1012 Talbot St., St. Thomas	57	23	40	49	61	91	148	181	55	48	4	NIL
	15008	Edgeware Rd., NNW of												
	17006	Varta Plant, St. Thomas St. Anthony's S.S.	47	16	27	36	45	71	94	98	40	35	NIL	NIL
	17019	Hwy. 2, Beachville 1401 Parkinson E.	70	34	47	71	83	122	286	329	76	64	8	1
		Woodstock	37	23	39	43	59	87	124	131	53	46	1	INS
	17020	Spriel, Hwy. 2 RR #2, Ingersoll	56	31	44	57	75	113	165	174	66	57	5	NIL
WEST	22031	Selkirk	59	20	27	35	46	72	83	88	39	35	NIL	NIL
CENTRAL	22056	Port Dover	57	21	26	31	46	67	89	108	38	34	NIL	NIL
	22069	Sandusk Experimental Farm	53	21	27	31	43	64	81	87	37	34	NIL	NIL
	22071	Simcoe	56	11	17	25	30	44	97	121	28	23	1	NIL
	22086	Cheapside Rd., 3 km S of Hwy. 3, Nanticoke	57	20	32	38	47	61	101	125	41	37	1	NIL
	22087	Jarvis Community Centre												
	26029	James St., Jarvis Edna/Frederick St.	56	23	35	41	57	94	239	301	57	46	5	NIL
	26035	Kitchener Uniroyal, 149 Strange St.	55	27	42	60	73	98	140	140	60	54	2	NIL
		Kitchener 71 King St.	54	27	41	49	63	82	133	144	54	49	2	NIL
	27008	St. Catharines	57	32	41	51	66	89	139	142	57	52	2	NIL
	27009	Norton Portage Chippewa	57	37	52	70	89	118	179	196	75	67	5	1
	27014	Stanley Chippewa Pkwy. Chippewa	52	24	34	44	52	84	112	114	50	45	NIL	NIL
	27030	Killaly E./James												
	27037	Port Colborne North/Geneva St.	55	25	32	39	50	78	91	92	45	42	NIL	NIL
	27045	St. Catharines 337 Alberta at Devon St.	58	33	48	56	68	91	142	160	62	56	2	NIL
NEOT	07017	Welland	22	28	49	54	63	77	109	111	56	51	NIL	INS
WEST CENTRAL	27047	Davis Frazer Port Colborne	60	17	30	39	64	101	148	149	53	42	6	NIL
	27049	Murray Buchanan Ave. Niagara Falls	54	33	43	53	67	89	124	125	59	54	2	NIL
	27050	4057 Victoria Ave. Niagara Falls	16	58	62	70	101	143	191	199	91	83	4	INS
	27052	185 Queen St. S.									Sent succession			
	27053	Thorold First Ave./Bridge St.	41	46	70	87	114	215	340	368	110	92	11	1
		Niagara Falls	33	41	59	65	75	93	195	211	73	67	2	INS
	27055	STP Grounds Stanley Ave., Niagara Falls	28	31	55	64	86	105	133	137	69	63	2	INS
	28024	95 Inkerman St. Guelph	57	25	37	46	55	87	112	118	51	45	NIL	NIL
	28025	Farquhar Wyndham St.												
	28027	Guelph Hanlon Expwy Speed River	56	19	29	39	46	73	87	88	42	38	NIL	NIL
	29001	Guelph Hughson/Hunter	37	34	51	71	99	163	218	235	86	72	7	INS
		Hamilton	54	35	44	65	85	135	232	250	80	67	10	1
	29007	City Hall Hamilton	58	28	40	57	83	154	223	251	75	60	11	NIL
	29008	North Park Hamilton	338	38	60	85	112	158	249	323	93	80	81	1
	29009	Kenilworth												
	29011	Hamilton Burlington/Leeds	58	34	43	64	89	123	177	200	72	62	8	1
	29012	Hamilton Burlington/Wellington	58	43	64	87	136	218	321	370	114	92	20	1
	29017	Hamilton Chatham Frid	59	36	59	72	99	132	192	201	82	73	10	1
		Hamilton	59	38	59	78	119	166	317	329	97	81	15	1
	29025	Barton/Wentworth Hamilton	332	40	59	77	107	175	294	395	95	81	79	1
	29067	450 Hughson St. N. Hamilton	54	27	39	60	75	97	150	160	62	54	4	NIL
	29085	Upper Wellington Inverness												
		Hamilton	50	29	35	56	78	122	188	205	68	57	6	NIL

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Table 17 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	CRIT	ABOVE ERIA 1 YR
	29087	405 Cumberland Ave.												
		Hamilton	58	28	33	56	83	129	210	211	71	58	7	NIL
	29089	Barton/Nash Hamilton	55	33	43	56	84	121	169	185	70	60	6	NIL
	29090	Westdale Library	55	33	40	30	04	121	103	103	70	00		TAIL
		Hamilton	49	30	43	53	68	112	162	179	61	53	3	NIL
CENTRAL	31018	35 Bathurst St												
		Toronto	151	56	70	95	125	169	245	276	106	96	50	INS
	31058	Mosley Leslie St. Toronto	345	39	56	72	97	138	274	421	84	74	58	1
	31064	17 Berkshire Ave.												
	31065	Toronto 633 Eastern Ave.	253	40	54	65	81	121	188	344	74	67	26	1
		Toronto	34	40	50	65	77	93	160	181	68	62	2	INS
	31079	Fire Hall 1285 Dufferin St., Toronto	343	31	41	53	68	91	147	169	58	53	10	NIL
	31082	Work Dept.	343	31	41	53	66	91	147	109	50	33	10	INIL
	04004	138 Hamilton Ave., Toronto	343	36	52	66	85	131	207	245	75	67	44	1
	31084	Maydwell Mfg. 65 Saulter St., Toronto	346	30	50	63	80	116	195	283	71	64	30	1
	31085	Techumseth/Niagara St.								1000111				2
	31104	Toronto 26 Breadalbane	277	45	62	76	96	140	219	236	86	77	49	1
		Toronto	354	31	42	54	68	100	172	207	61	55	16	NIL
	31105	Sherbourne/Wilton St. Toronto	122	49	73	87	105	147	226	272	95	87	26	1
	31120	Junction Triangle												
	33003	Perth Ave., Toronto Lawrence/Kennedy	113	30	40	49	61	87	155	307	56	51	3	NIL
	33003	Scarborough	120	35	47	55	68	99	154	164	62	57	6	NIL
	33019	Met. Branch, Scarborough	110	a.e.	25	AE	E 7	74	0.7	1.47	40	44	4	NIII
	34002	Bluffs, Scarborough Science Centre	113	25	35	45	57	74	97	147	48	44	1	NIL
		770 Don Mills Rd., North York	117	25	38	43	53	71	113	115	46	43	NIL	NIL
	34007	Bathurst/Wilson North York	112	36	50	60	72	106	148	158	66	59	8	NIL
	35003	Elmcrest Rd.												
	35005	Etobicoke Queensway Hospital	116	30	44	52	68	98	145	154	61	55	6	NIL
		Etobicoke	112	32	44	53	66	97	267	307	63	55	5	NIL
	35033	Evans/Arnold Ave. Etobicoke	119	38	53	74	100	136	201	231	83	74	19	NIL
	35037	3050 Lakeshore Blvd. W.												
	35050	Etobicoke MOE Lab	327	31	45	58	73	98	146	316	63	57	10	NIL
	33030	Resources Rd., Etobicoke	120	28	37	45	55	77	106	125	50	45	1	NIL
	35051	Radiation Lab Resources Rd., Etobicoke	331	25	38	49	63	88	128	149	54	48	7	NIL
	44008	Hwy. 2/North Shore Blvd. E.	331	23	50	43			120	143		40		
	44015	Burlington Bronte Rd./Woburn Cres.	116	22	36	48	62	87	120	136	53	46	10	NIL
	44015	Oakville	115	25	35	47	60	75	112	119	50	45	NIL	NIL
	45001	Pickering Fire Hall	281	23	37	49	64	98	150	314	56	48	13	NIL
	45003	Pickering McDonald P.S.	201	23	37	49	04	90	130	314	50	40	13	IVIL
		Pickering	332	21	32	42	55	90	165	280	51	43	16	NIL
	45005	Frenchman's Bay Sewage Pickering	319	19	27	35	46	74	131	178	41	36	5	NIL
	45006	Lakeshore Park Sewage												
	45007	Pickering Ajax-Pickering Hospital	331	18	26	34	43	69	118	247	39	34	3	NIL
	43007	Pickering	337	20	29	36	46	67	107	121	40	35	1	NIL
	45008	Dufferin Creek Sewage Plant Pickering	338	20	28	37	48	68	104	129	41	37	2	NIL
	45011	Public Library												
	45025	Oshawa Ritson Rd./Olive Ave.	113	29	41	49	58	87	133	148	53	47	2	NIL
	43025	Oshawa	120	31	45	53	67	89	133	134	58	52	3	NIL
	46025	Mississauga Public Library	E4	24	F 4	62	75	107	100	104	60	60		
	46033	Mississauga Bramalea Fire Hall	54	34	51	63	75	107	183	184	69	62	5	1
		Bramalea	51	32	47	60	78	128	168	186	70	61	7	1
	46045	2365 Dixie Rd. Mississauga	346	33	46	58	75	104	159	190	65	58	16	NIL
	46046	2360 Dixie Rd.												
	46110	Mississauga Queensway W./Huron-	352	28	41	52	66	93	147	198	58	52	9	NIL
		tario St., Mississauga	120	33	47	60	88	124	154	229	72	63	13	1

Table 17 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	CRIT 24-HR	ERIA
CENTRAL	47019	Post Office												
OLITI II IL	47042	17-25 Peter St. N., Orillia Armoury Bldg.	52	28	39	53	75	115	184	185	66	55	5	NIL
		Park/Parkside St., Barrie	100	18	26	35	47	68	93	98	40	35	NIL	NIL
	48002	MTC Yard #9 Hwy. 47, Stouffville	99	27	37	45	52	68	102	114	46	43	NIL	NIL
	58027	51 Shuter St. Port Hope	58	20	28	34	43	63	144	150	41	36	2	INS
	58028	2 Choate St. Port Hope	59	29	38	50	70	136	172	177	66	55	10	INS
	58029	66 Queen St.												
	59006	Port Hope City Hall	61	22	30	38	44	59	86	92	39	36	NIL	INS
20270 (220TO)	1000000	500 George St., Peterborough	116	21	31	40	52	92	134	153	48	42	4	NIL
SOUTH EAST	51001 51018	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa 55 Queen St.	55	22	31	36	44	65	91	94	40	36	NIL	NIL
	52017	Ottawa 106 Clarence St.	50	25	34	40	54	76	97	97	47	42	NIL	NIL
		Kingston	10	38	41	44	52	76	91	93	52	50	NIL	INS
	54013	Post Office Bldg. Belleville	48	23	28	40	48	84	102	113	44	39	NIL	NIL
	56006	4 Montreal Rd. Cornwall	53	27	35	40	54	68	103	109	46	42	NIL	NIL
	56051	Memorial Park York/Third St., Cornwall	57	25	33	41	47	64	97	112	43	40	NIL	NIL
NORTH	62013	Weather Station	37	23	55			04	31	112	43	40	IVIL	IVIL
WEST	62030	Atikokan Portage/Church St.	54	9	14	19	32	44	102	115	26	20	NIL	NIL
		Fort Frances	55	23	36	51	73	143	217	233	66	52	7	NIL
	62032	Cemetery, Colonization Rd. W Fort Frances	57	16	23	32	44	68	94	113	37	32	NIL	NIL
	63005	Hospital, Archibald Arthur, Thunder Bay	58	20	31	36	50	82	126	143	44	39	1	NIL
	63012	Dawson Ct. Algoma St. N. Thunder Bay	58	9	20	30	43	67	118	134	37	28	1	NIL
	63022	Hospital, 35 Algoma St. N. Thunder Bay	59	18	28	34	49	87	105	107	44		NIL	NIL
	63040	435 James St. S.										38		
	63046	Thunder Bay Can. Car Bldg.	56	13	23	29	37	57	100	102	33	27	NIL	NIL
	63052	Montreal St., Thunder Bay Transit Maint. Bldg.	57	21	33	44	64	104	138	140	54	45	3	NIL
		William Rd., Thunder Bay	59	21	35	46	65	118	171	175	59	48	6	NIL
NORTH EAST	71020	Police Stn., Hillside Dr. N. Elliot Lake	50	18	26	33	47	70	116	118	41	35	NIL	NIL
	71022	Sault College Queens St., Sault Ste. Marie	49	24	44	68	89	131	209	248	75	63	6	1
	71023	Hydro Pole, Quirke Townsite No. 1, Elliot Lake	55	11	15	22	31	54	128	293	31		1	NIL
	71042	Bonney St. Pumphouse										24		
	71049	Sault Ste. Marie Land Reg. Office	49	35	67	107	163	232	416	476	131	100	20	1
	71053	Queen St., Sault Ste. Marie Denison Townsite	46	19	32	39	47	76	198	204	49	40	3	NIL
	71054	Elliot Lake Nordic Townsite	52	8	16	21	32	49	121	176	28	21	1	NIL
		Elliot Lake	51	9	14	19	27	38	48	50	22	19	NIL	NIL
	71061 71063	Esker Lake Camp Stollery Lake	34	10	15	28	41	79	227	237	44	29	2	INS
	71065	Trailer Park St. Joseph's Hospital	45	13	19	27	47	153	352	415	60	35	6	NIL
	75010	Blind River OPP Station	20	9	11	15	25	39	41	42	19	16	NIL	INS
	77016	North Bay Ash Street Water Tank	45	17	25	35	41	70	90	92	38	34	NIL	NIL
	77026	Sudbury 19 Lisgar St.	56	20	25	35	41	59	92	117	37	34	NIL	NIL
		Sudbury	44	21	28	33	44	67	106	120	39	35	NIL	NIL
	77029	Post Office. Spruce Barber St., Espanola	49	22	31	41	60	93	233	326	56	45	3	NIL
	77070	Nickel St. Pump House Copper Cliff	55	20	33	38	50	75	271	426	52	41	2	NIL
	77076	Post Office Falconbridge	43	18	26	36	47	80	125	135	43	37	1	NIL
NEMP	22902	Tyneside Chippewa Rd.	40		2.0	55	7.0	00	123	100	43	31		INIL
TALLINII		Binbrook West	51	23	31	37	47	65	85	94	42	39	NIL	NIL
	22904	Walpole South P.S. Sandusk Rd., Nanticoke	57	23	31	36	45	61	111	170	41	37	1	NIL

Table 17 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES CRIT 24-HR	
NEMP	22951	Walpole Con. II Sandusk Rd.												
		Hagersville	60	24	32	39	47	76	185	256	48	42	2	NIL
	22952	100 m SE Lakeshore Rd.												
		Peacock Prov. Park	53	19	27	30	38	52	73	74	34	32	NIL	NIL
	22953	Waterford Conc. 2 E. Quarter-									0.5	20		
	22254	line, Dogs Nest	107	18	26	31	38	59	81	92	35	32	NIL	NIL
	22954	E.Quart.Line/Waterford Conc. 13. Villa Nova	60	21	28	34	44	62	231	324	44	37	2	NIL
	22955	Hald-Norf Rd. 8 Cayuga	00	21	20	34	***	02	231	324		37	2	IVIL
	22333	Conc. 2. Rainham Centre	54	19	26	34	41	51	100	153	37	33	1	NIL
	22956	Hald-Norf Rd. 17/H-N Rd. 32												
		Canfield South	50	25	35	40	53	64	87	101	44	41	NIL	NIL
	22957	Fisherville Indian Line Rd.												
		Fisherville	59	23	30	38	50	81	106	123	45	41	1	NIL
	22958	H-N Rd. 63/5 km E. H-N Rd. 14		22	22					0.72				
	00050	Canborough East	57	23	30	37	48	68	107	116	43	39	NIL	NIL
	22959	Hwy. 59, Big Creek Wildlife Reserve	59	20	28	34	41	49	79	81	35	33	NIL	NIL
	22960	McKenzie Rd. H-N Rd. NN	59	20	20	34	41	49	19	01	33	33	IVIL	INIL
	22300	Dufferin North	57	26	32	40	47	66	91	95	43	39	NIL	NIL
	22961	Nanticoke Rd. Walpole Conc. 2	2											
		Nanticoke North	116	21	29	37	47	64	110	134	41	37	1	NIL
	22963	NNW 6												
		Stelco North	117	21	28	35	46	66	124	143	41	36	2	NIL

Table 18 Summary of Data: Sulphate in Suspended Particulate Matter (all values in micrograms per cubic meter)
No Ontario Criterion

	STATION		NO. OF			PERCE	NTILES			MAX.	ARITH.	GEOM.	
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	
SOUTH	12002	City Hall											
WEST	12005	444 Windsor Ave., Windsor 7730 Riverside Dr. E.	55	5.7	7_7	9 4	12.8	17.2	28 4	37.4	110	99	
		Windsor	52	5.4	8.1	8.8	11.0	16.1	28.4	34.3	10.3	9.3	
	12008	467 University Ave. W. Windsor	321	5.0	7.1	8.9	11.2	16.8	32.5	50.5	10.2	9.0	
	12009	9725 Riverside Dr. E.	5.2	4.8	7.3	9.4	12.9	16.1	29.1	32 4	10.6	9.4	
	12010	Windsor Tecumseh Sewage Stn.	53	4.8		94	12.9	16.1	29	32 4	10.6		
	12013	Manning Rd., Windsor Filtration Plant, 3665 Wyan-	56	4.4	6.5	7.6	10.3	14.8	18.8	19.8	8.8	7.9	
	12013	dotte St. E., Windsor	56	5.7	8.2	9.6	13.0	15.4	26.1	35.0	10.9	9.9	
	12014	Univ. Met. Stn. College Calif. St., Windsor	44	6.1	9.8	11.5	15.2	21.1	30 1	32.2	13.1	11.8	
	12015	Sewage Plant											
	12032	Hwy. 18 Prospect, Windsor Morton Dock	52	7.3	8.8	10.5	13.7	16.9	26.9	28.0	11.7	10.8	
		Bedford Ojibway, Windsor	55	6.4	8.3	10.4	11.9	15.1	28.0	32.2	11.0	10.2	
	13003	Post Office 10 Center St., Chatham	44	4.9	5.9	7.5	9.9	14.8	18 1	18 9	8.6	7.8	
	13023	RR #1, Behind					102-172						
	13024	the Barn, Blenheim Jackson Farm	10	7.4	8.1	8.5	9.3	12.6	18.5	19.3	9.8	9.4	
		Blenheim	11	7.9	8.5	9.0	12.3	20.3	21.6	21.7	11.5	10.6	
	13025	RR #2. Behind the Barn, Merlin	11	6.7	7.1	8.6	9.0	18.2	20.3	20.6	10.2	9.4	
	14001	General Hospital	50		7.0	0.0	40.0	10.0	20.0	24.0	10.0	76.4	
	14016	220 Minton St., Sarnia Opposite Lambton GS	58	5.1	7.0	9.9	12.0	18.0	29.9	34.8	10.9	9.4	
		Hwy. 40. Courtright	339	4.7	6.7	8.0	10.2	15.3	25 9	48.7	9.3	8.3	
	14030	RR #1. West of the House, Corunna	58	4.8	5.9	7.3	10.4	14.3	25.5	39.6	8.9	7.9	
	14031	RR #1, West Side of Barn, Mooretown	58	4.6	5.9	7.7	9.7	12.7	21.7	31.3	8.6	7.8	
	14054	Sarnia Yacht Club	36										
	14064	Port Edward, Sarnia Centennial Park	58	5.1	6.8	9.2	11.0	16.0	36 0	41.5	10.3	9.1	
	14004	Front St. CN Track, Sarnia	55	4.7	6.8	9.2	12.8	16.2	28.8	32.6	10.5	9.2	
	14151	St. Clair River David Front St., Sarnia	54	4.5	7.3	10.0	13.0	19.6	30.3	35.3	11.4	10.0	
	15001	Western Fair Ground											
	15003	King Rectory, London 362 Dundas St.	56	4.8	6.1	7.6	10.2	13.5	27.4	32.4	9.0	7 9	
	1.3003	London	57	3.7	5.7	7.0	8.6	11.4	24.9	36.1	7.7	6.7	

Table 18 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	
WEST	22071	Experimental Farm											
CENTRAL		Simcoe	56	4.2	5.7	6.9	8.0	13.2	26.9	31.4	7.9	6.9	
	22086	Cheapside Rd., 3 km S of Hwy. 3, Nanticoke	57	4.6	6.2	6.9	8.6	11.8	2.33	2.36	8.2	7.4	
	26029	Edna/Frederick St.											
	27008	Kitchener 71 King St.	55	5.2	6.3	8.0	10.4	17.2	25.8	27.5	9.6	8.5	
	27000	St. Catharines	58	4.7	6.2	7.2	8.8	11.5	215	25.1	8.2	7.6	
	27037	North/Geneva St. St. Catharines	58	4.2	6.0	6.7	8.8	12.2	21.9	24.6	8.1	7.3	
	27049	Murray/Buchanan Ave.	30	4.2	6.0	0.7	0.0	12.2	21.9	24.0	0.1	7.3	
	20005	Niagara Falls Farquhar/Wyndham St.	54	6.3	7.3	8.4	10.2	14.9	25.9	30.5	9.9	9.0	
	28025	Guelph	56	3.7	5.7	6.5	9.7	14.6	23.9	31.5	8.3	7.2	
	29001	Hughson/Hunter		F C		0.4	100	100	25.0	20.0	10.0	0.5	
	29008	Hamilton North Park	55	5.6	6.8	8.4	12.0	16.8	35.6	39.3	10.8	9.5	
		Hamilton	338	6.7	9.3	12.0	14.2	19.4	34.6	38.5	12.7	11.5	
	29011	Burlington/Leeds Hamilton	57	5.5	7.8	10.5	15.8	22.5	47.0	53.4	13.3	11.2	
	29012	Burlington/Wellington											
	29017	Hamilton Chatham/Frid	59	5.6	7.0	8.4	10.8	19.4	30.0	39.2	10.3	9.1	
		Hamilton	59	5.7	8.0	9.8	12.7	18.5	37.3	38.7	11.7	10.2	
	29025	Barton/Wentworth Hamilton	338	5.0	7.4	9.4	12.6	19.4	36.7	59.3	11.2	9.6	
	29085	Upper Wellington/Inverness											
	29087	Hamilton 405 Cumberland Ave.	50	5.2	6.5	8.6	13.2	19.8	34.4	35.6	10.9	9.4	
	20001	Hamilton	58	5.7	7.4	10.2	13.6	18.6	28.3	41.1	11.5	10.3	
CENTRAL	31104	26 Breadalbane											
CETTIONE		Toronto	354	5.8	7.8	9.4	11.7	15.2	25.5	47.0	10.4	9.5	
	31105	Sherbourne/Wilton St. Toronto	118	7.4	9.1	10.8	12.3	16.4	24.5	29.0	11.3	10.7	
	31120	Junction Triangle											
	33003	Perth Ave., Toronto Lawrence/Kennedy	113	5.7	7.4	8.5	10.6	13.4	25.4	30.8	9.6	8.9	
		Scarborough	120	5.4	7.0	8.5	10.1	13.4	30.5	38.8	9.4	8.6	
	33019	Met. Branch, Scarborough Bluffs, Scarborough	112	4.8	7.6	9.1	10.7	14.9	29.0	43.2	9.9	8.9	
	34002	Science Centre											
	34007	770 Don Mills Rd., North York Bathurst/Wilson	116	5.2	7.4	9.0	10.9	13.8	26.3	28.7	9.6	8.8	
		North York	112	6.4	9.1	10.7	12.8	16.8	32.0	35.5	11.6	10.7	
	35003	Elmcrest Rd. Etobicoke	116	6.0	8.1	9.9	12.2	17.3	44.0	50.8	11.4	10.1	
	35005	Queensway Hospital											
	35033	Etobicoke Evans Arnold Ave.	112	6.0	7.4	8.8	10.3	13.7	29.6	34.5	9.8	9.0	
		Etobicoke	119	7.1	9.0	10.6	13.2	18.0	32.5	34.6	12.2	11.3	
	44008	Hwy. 2/North Shore Blvd. E. Burlington	117	6.6	8.0	9.3	11.2	14.3	29.0	32.7	10.4	9.7	
	44015	Bronte Rd./Woburn Cres.											
	45001	Oakville Pickering Fire Hall	115	6.3	7.9	9.7	11.8	15.6	25.1	40.7	10.6	9.8	
		Pickering	281	3.8	5.0	6.5	8.5	11.9	23.9	35.5	7.5	6.6	
	45011	Public Library Oshawa	115	5.3	7.0	8.5	10.1	12.9	25.1	30.2	9.2	8.3	
	45025	Ritson Rd./Olive Ave.											
	46025	Oshawa Mississauga Public Library	120	5.5	7.4	8.8	10.5	12.9	25.6	33.8	9.6	8.9	
		Mississauga	54	6.7	7.7	8.8	10.4	15.3	27.3	32.0	10.3	9.5	
	46033	Bramalea Fire Hall Bramalea	52	5.5	7.3	8.1	10.2	17.3	23.4	23.9	9.7	8.8	
	46110	Queensway W./Huron-											
	47019	tario St., Mississauga Post Office	120	5.5	7.3	9.1	11.7	17.2	29.8	32.9	10.4	9.2	
		17-25 Peter St. N., Orillia	52	4.1	5.8	7.5	9.0	12.6	23.9	31.6	8.5	7.5	
	47042	Armoury Bidg., Park/ Parkside St., Barrie	99	4.2	6.1	7.1	8.4	12.3	21.8	28.8	8.1	7.2	
	48002	MTC Yard #9											
	58027	Hwy. 47, Stouffville 51 Shuter St.	98	3.6	6.0	8.2	9.4	12.3	18.0	28.9	8.2	7.2	
		Port Hope	58	2.7	3.6	5.3	6.9	10.1	22.6	36.5	6.3	5.2	
	58028	2 Choate St. Port Hope	59	2.8	4.7	6.3	7.1	11.9	25.8	32.6	7.3	6.1	
	58029	66 Queen St.	-	4									
	30023		11.695-	17000170									
	59006	Port Hope City Hall	61	2.5	3.6	4.8	6.2	10.4	19.1	20.8	5.9	5.0	

Table 18 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	
SOUTH	51001	McDonald Gdns., Rideau/											
EAST		Wurtemburg, Ottawa	55	3.6	5.1	5.9	7.1	9.8	20.9	24.8	6.8	6.1	
	51018	55 Queen St.											
		Ottawa	50	4.6	5.9	6.7	8.0	12.1	19.6	21.2	7.8	7.1	
	52017	106 Clarence St.											
		Kingston	10	5.9	7.1	7.7	8.9	12.5	16.3	16.8	8.8	8.2	
	54013	Post Office Bldg.											
		Belleville	48	3.5	5.9	6.7	8.2	10.4	20.1	25.4	7.4	6.7	
	56006	4 Montreal St.											
		Cornwall	53	5.6	7.2	7.9	10.5	15.6	23.3	24.3	9.5	8.6	
	56051	Memorial Park											
		York/3rd St., Cornwall	59	4.7	7.3	8.1	10.4	13.3	24.4	24.7	9.1	8.2	
NORTH	63005	Hospital, Archibald											
WEST		Arthur, Thunder Bay	58	3.7	4.9	6.4	8.4	11.3	21.9	25.1	7.2	6.4	
	63022	Hospital, 35 Algoma St. N.											
		Thunder Bay	59	2.7	4.6	6.2	7.4	11.3	18.5	22.9	6.7	5.7	
	63040	435 James St.											
		Thunder Bay	56	1.9	4.1	6.7	8.4	11.3	20.2	21.5	6.8	5.3	
NORTH	71022	Sault College											
EAST	00.000000	Queen St., Sault Ste. Marie	49	6.2	8.4	9.7	12.2	15.3	27.9	28.3	10.9	10.0	
TO 10.00	71042	Bonney St. Pump House	832	0.000		12000				0 = 3131	15,446	0.700	
		Sault Ste. Marie	49	6.1	10.6	12.4	18.3	25.3	39.6	47.6	15.2	12.8	
	71049	Land Reg. Office								_			
	to the series to the series of	Queen St., Sault Ste. Marie	46	4.5	6.6	8.3	9.4	11.9	23.8	30.2	8.6	7.7	
	75010	OPP Station							C-2000	0.000	3,000		
		North Bay	45	2.9	4.2	7.1	8.2	13.1	27.6	32.1	7.6	6.3	
	77016	Ash St. Water Tank											
		Sudbury	56	4.2	5.8	7.2	9.3	12.4	20.6	24.5	8.2	7.3	
	77026	19 Lisgar St.											
		Sudbury	44	3.9	5.7	7.5	8.4	12.1	15.9	16.6	7.5	6.9	
	77070	Nickel St. Pump House											
		Copper Cliff	49	3.4	5.4	6.6	7.4	11.5	19.9	24.8	7.2	6.3	
	77076	Post Office											
		Falconbridge	55	4.3	6.5	9.0	11.9	14.0	23.7	27.5	9.4	8.3	

Table 19 Summary of Data: Nitrate in Suspended Particulate Matter (all values in micrograms per cubic meter)
No Ontario Criterion

	STATION		NO. OF				NTILES			MAX.	ARITH.	GEOM.	
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	
SOUTH	12002	City Hall											
WEST		444 Windsor Ave., Windsor	55	2.6	3.1	4.5	5.9	9.1	14.8	15.6	5.2	4.4	
	12005	7730 Riverside Dr. E.											
		Windsor	52	1.6	2.8	3.7	4.7	6.4	13.6	18.5	4.2	3.4	
	12008	467 University Ave. W.											
		Windsor	316	1.7	2.7	3.8	5.3	8.1	12.9	17.3	4.5	3.7	
	12009	9725 Riverside Dr. E.											
		Windsor	53	1.5	2.5	3.7	4.7	7.1	12.1	12.7	4.1	3.3	
	12010	Tecumseh Sewage Stn.											
		Manning Rd., Windsor	56	0.9	1.9	2.9	3.7	5.2	8.8	9.7	3.1	2.6	
	12013	Filtration Plant, 3665 Wyan-											
		dotte St. E., Windsor	56	1.8	3.0	4.4	5.6	7.7	14.3	15.4	4.8	4.0	
	12014	Univ. Met. Stn.											
		College/Calif. St., Windsor	44	1.7	2.9	3.6	5.3	9.5	15.0	16.8	4.8	3.8	
	12015	Sewage Plant											
		Hwy. 18/Prospect, Windsor	52	1.4	2.2	3.6	4.9	9.2	14.6	15.1	4.5	3.2	
	12032	Morton Dock											
		Bedford/Ojibway, Windsor	55	1.7	2.6	5.2	5.5	7.2	13.6	14.1	4.4	3.6	
	13003	Post Office											
		10 Center St., Chatham	44	2.0	3.0	4.0	4.6	7.6	10.4	11.3	4.3	3.7	
	13023	RR #1, Behind											
		the Barn, Blenheim	10	22	3.3	5.1	6.3	7.0	7.8	7.9	4.6	4.1	
	13024	Jackson Farm											
		Blenheim	11	2.3	3.2	4.3	5.3	8.1	10.6	10.9	4.8	4.2	
	13025	RR #2, Behind											
		the Barn, Merlin	11	2.0	2.4	3.7	4.9	7.4	8.6	8.8	4.1	3.6	
	14001	General Hospital											
		220 Minton St., Sarnia	58	1.8	2.4	3.6	4.9	7.2	13.2	13.3	4.2	3.4	
	14016	Opposite Lambton GS											
		Hwy. 40, Courtright	339	1.1	1.9	2.8	4.2	6.1	11.5	23.3	3.5	2.7	

Table 19 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	
	14030	RR #1, West of											
	14031	the House, Corunna RR #1, West Side	58	1.7	2.5	3.3	4.9	6.8	8.9	9.0	3.8	3.2	
	14054	of Barn, Mooretown Sarnia Yacht Club	58	1.2	2.3	3.0	4.3	6.0	9.8	11.3	3.5	2.9	
	14064	Port Edward, Sarnia Centennial Park	58	1.3	2.2	3.0	5.2	6.6	9.9	11.3	3.8	3.1	
-		Front St. CN Track, Sarnia	55	1.4	2.7	3.6	4.7	7.9	129	15.6	4.3	3.4	
	14151	St. Clair River David/Front St., Sarnia	54	1.4	3.0	3.8	5.3	8.9	12.8	15.3	4.6	3.7	
	15001	Western Fair Ground King Rectory, London	56	1.7	2.7	3.7	5.6	8.8	11.9	12.3	4.6	3.6	
	15003	362 Dundas St. London	57	1.6	2.2	3.1	4.3	7.6	9.6	9.7	3.8	3.1	
WEST	00074		37	1.0	2.2	3.1	4.5	7.0	3.0	9.7	3.0	3.1	
WEST CENTRAL	22071	Experimental Farm Simcoe	56	1.3	2.0	2.6	3.9	5.1	7.6	9.8	3.1	2.5	
	22086	Cheapside Rd., 3 km S of Hwy. 3, Nanticoke	57	1.4	2.2	2.7	4.0	5.7	8.0	9.5	3.3	2.8	
	26029	Edna/Frederick St. Kitchener	54	1.3	2.8	3.9	5.4	8.3	19.1	36.2	4.9	3.7	
	27008	71 King St.											
	27037	St. Catharines North/Geneva St.	58	1.7	2.9	3.5	5.1	7.0	9.8	9.9	4.1	3.5	
	27049	St. Catharines Murray/Buchanan Ave.	58	1.1	2.6	3.7	4.8	6.7	9.2	9.4	3.9	3.2	
	28025	Niagara Falls Farquhar/Wyndham St.	54	1.3	2.7	3.5	4.5	6.6	11.8	12.5	3.9	3.2	
	29001	Guelph Hughson/Hunter	56	1.5	2.2	3.3	4.8	7.2	10.7	11.1	4.0	3.2	
		Hamilton	55	1.8	2.8	3.6	6.6	10.0	12.0	12.1	5.1	4.1	
	29008	North Park Hamilton	338	1.5	3.0	4.4	6.3	9.8	14.9	16.4	5.2	4.1	
	29011	Burlington/Leeds Hamilton	56	1.9	2.7	4.1	6.7	10.2	14.4	15.0	5.2	4.0	
	29012	Burlington/Wellington Hamilton	59	2.1	2.9	4.2	7.4	10.8	14.2	15.8	5.6	4.6	
	29017	Chatham/Frid Hamilton	59	2.0	2.8	4.3	6.7						
	29025	Barton/Wentworth						10.3	14.4	16.0	5.4	4.3	
	29085	Hamilton Upper Wellington/Inverness	338	1.4	2.5	3.8	5.4	9.5	15.5	20.5	4.7	3.7	
	29087	Hamilton 405 Cumberland Ave.	50	1.8	2.7	3.4	5.5	9.1	13.0	13.2	4.5	3.6	
		Hamilton	58	1.7	2.6	3.8	5.8	9.8	14.7	17.1	5.1	4.0	
CENTRAL	31104	26 Breadalbane Toronto	355	1.4	2.6	4.1	6.0	9.7	14.9	16.3	4.0	2.0	
	31105	Sherbourne/Wilton St.									4.9	3.8	
	31120	Toronto Junction Triangle	122	1.7	3.1	4.2	6.3	8.8	14.3	17.5	5.0	4.0	
	33003	Perth Ave., Toronto Lawrence/Kennedy	113	1.6	2.9	3.8	5.3	7.5	12.9	14.8	4.4	3.6	
	33019	Scarborough Met. Branch, Scarborough	120	1.4	2.4	3.6	4.9	7.6	14.6	17.2	4.1	3.3	
	34002	Bluffs, Scarborough Science Centre	112	1.4	2.6	3.8	5.1	8.4	12.8	14.6	4.3	3.5	
	34007	770 Don Mills Rd., North York Bathurst/Wilson	116	1.4	2.4	3.5	4.9	7.3	10.2	13.4	4.0	3.2	
		North York	112	1.7	2.6	3.8	5.8	9.4	14.2	15.5	4.7	3.7	
	35003	Elmcrest Rd. Etobicoke	116	1.6	2.8	4.1	6.4	10.7	16.8	17.2	5.2	4.1	
	35005	Queensway Hospital Etobicoke	112	1.7	3.0	3.9	5.5	7.6	13.6	13.7	4.6	3.7	
	35033	Evans/Arnold Ave. Etobicoke	119	2.0	3.6	5.1	7.6	10.6	16.8	21.7	6.1	4.9	
	44008	Hwy. 2/North Shore Blvd. E. Burlington											
	44015	Bronte Rd./Woburn Cres.	118	1.9	2.9	3.9	5.9	7.9	11.4	11.6	4.5	3.6	
	45001	Oakville Pickering Fire Hall	115	1.3	2.5	3.4	5.1	7.5	11.1	13.7	4.1	3.2	
	45011	Pickering Public Library	281	0.7	1.9	3.1	4.5	7.7	12.2	13.7	3.7	2.7	
	45025	Oshawa Ritson Rd. Olive Ave.	115	1.2	2.5	3.9	5.4	7.8	9.5	15.1	4.2	3.4	
	46025	Oshawa	120	1.1	2.4	4.0	5.2	7.4	11.0	13.9	4.1	3.2	
	40023	Mississauga Public Library											
	46033	Mississauga Bramalea Fire Hall	54	1.7	3.3	4.5	6.6	8.7	13.2	14.9	5.0	4.0	

Table 19 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
CENTRAL	46110	Queensway W./Huron-		131-121	- WATEN	20000			Additional Control	252200		Name Co.
	922999	tario St., Mississauga	120	1.6	2.7	3.8	5.7	7.8	16.0	19.8	4.5	3.6
	47019	Post Office	50	0.0	0.1	2.2	4.0	77	10.0	11.2	2.7	2.8
	47042	17-25 Peter St. N., Orillia Armoury Bldg., Park/	52	0.9	2.1	3.3	4.6	7.7	10.2	11.2	3.7	2.8
	47042	Parkside St., Barrie	100	1.0	1.9	2.9	4.6	7.5	9.4	13.6	3.5	2.6
	48002	MTC Yard #9	100	1.0	1.3	2.3	4.0	7.5	3.7	10.0	0.0	2.0
	40002	Hwy. 47, Stouffville	98	1.1	2.3	3.4	4.8	7.4	10.0	14.7	3.9	3.1
	58027	51 Shuter St.										
		Port Hope	58	1.4	3.0	4.4	6.8	11.2	19.2	21.6	5.6	4.2
	58028	2 Choate St.										
		Port Hope	59	1.3	2.9	5.2	7.3	15.3	27.7	34.4	6.9	4.7
	58029	66 Queen St.								40.0		0.0
	E000C	Port Hope	61	1.0	2.2	3.5	4.9	6.3	9.9	10.2	3.8	3.0
	59006	City Hall 500 George St., Peterborough	116	0.8	1.7	2.7	4.1	6.3	11.7	14.5	3.3	2.5
		500 George St., Peterborough	110	0.0	1.7	2.1	9.1	0.5	11.7	14.5	3.3	2.0
SOUTH	51001	McDonald Gdns., Rideau/										
EAST	31001	Wurtemburg, Ottawa	55	0.6	1.1	2.1	2.6	4.2	8.9	10.2	2.4	1.7
	51018	55 Queen St.										
		Ottawa	50	0.8	1.3	2.1	3.4	6.1	10.6	11.3	2.8	2.1
	52017	106 Clarence St.										
		Kingston	10	1.5	2.7	3.2	5.5	8.1	9.4	9.5	4.3	3.2
	54013	Post Office Bldg.							7.0			0.5
		Belleville	48	1.2	1.8	2.5	3.7	6.0	7.8	8.5	3.0	2.5
	56006	4 Montreal St.	53	1.1	1.8	2.5	3.0	6.6	8.6	8.8	3.1	2.5
	56051	Cornwall Memorial Park	55	1.1	1.0	2.5	3.0	0.0	0.0	0.0	3.1	2.5
	36031	York/3rd St., Cornwall	59	0.8	1.6	2.1	3.1	5.2	8.8	9.7	2.7	2.2
		Tork ord ot., comman	00	0.0			0	0.2	0.0			
NORTH	63005	Hospital, Archibald/										
WEST		Arthur, Thunder Bay	58	0.6	0.9	1.2	1.7	4.5	6.0	6.2	1.7	1.2
	63022	Hospital, 35 Algoma St. N.										
		Thunder Bay	59	0.5	0.9	1.3	1.7	4.7	7.1	7.6	1.8	1.3
	63040	435 James St.	5.0	0.7				2.0		F 0		4.4
		Thunder Bay	56	0.7	1.0	1.5	1.7	3.2	5.1	5.2	1.7	1.4
NORTH	71022	Sault College										
EAST	71022	Sault College Queen St., Sault Ste. Marie	49	0.4	1.2	1.7	2.4	3.7	6.4	8.0	2.0	1.4
	71042	Bonney St. Pump House	45	0.4	1.2	1.0	East To	0.7	0.1	0.0		A.A.C.
	, 1012	Sault Ste. Marie	49	0.4	0.9	1.7	2.1	3.7	9.8	12.4	2.0	1.3
	71049	Land Reg. Office										
		Queen St., Sault Ste. Marie	46	0.3	0.7	1.5	2.2	3.4	5.5	5.7	1.7	1.2
	75010	OPP Station	146	19:10:10	1000	02.102.1	8. 90		1000	-2-2		
	2222128	North Bay	45	0.4	0.7	1.3	1.8	3.8	7.0	7.3	1.8	1.2
	77016	Ash St. Water Tank	EG	0.3	0.7	1.2	2.1	4.0	6.6	7.2	1.7	1.1
	77026	Sudbury	56	0.3	0.7	1.2	2.1	4.0	0.0	1.2	1.7	1.1
	77026	19 Lisgar St. Sudbury	44	0.4	1.0	1.6	2.1	3.5	6.8	7.1	1.8	1.4
	77070	Nickel St. Pump House	77	0.4	1.0	1.0	2.1	0.0	0.0	(* f.M.	1.0	17
	. , 0, 0	Copper Cliff	55	0.4	0.7	1.4	2.3	4.2	7.7	7.8	2.0	1.3
	77076	Post Office	59	-								
		Falconbridge	43	0.3	0.7	1.1	1.9	4.7	8.0	8.1	1.9	1.1

Table 20 Summary of Data: Lead in Total Suspended Particulate Matter (all values in micrograms per cubic meter)
Ontario Criterion – 24 hour average: 5.0 ug/m³

	STATION		NO. OF			PERCE	NTILES			MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HOUR
SOUTH	12002	City Hall											
WEST	12005	444 Windsor Ave., Windsor 7730 Riverside Dr. W.	54	0.1	0.2	0.3	0.4	0.5	0.9	1.0	0.3	0.2	NIL
		Windsor	55	0.1	0.1	0.1	0.2	0.3	1.0	1.1	0.2	0.1	NIL
	12008	467 University Ave. W. Windsor	307	0.1	0.2	0.3	0.3	0.5	1.0	1.3	0.3	0.2	NIL
	12009	9725 Riverside Dr. E. Windsor	53	0.1	0.1	0.1	0.1	0.3	0.9	1.0	0.1	0.1	NIL
	12010	Tecumseh Sewage Stn.	55	0.1	0.1								
	12013	Manning Rd., Windsor Filtration Plant, 3665 Wyan-	55	0.1	0.1	0.1	0.2	0.2	0.6	0.8	0.2	0.1	NIL
	12013	dotte St. E., Windsor	56	0.1	0.2	0.2	0.3	0.4	1.0	1.3	0.3	0.2	NIL
	12014	Univ. Met. Stn. College/Calif. St., Windsor	42	0.1	0.2	0.3	0.4	0.6	1.1	1.3	0.3	0.3	NIL
		Commence of the control of the contr											

Table 20 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOV CRITERION 24-HOUR
SOUTH	12015	Sewage Plant				20020						22	1700
WEST	12032	Hwy. 18/Prospect, Windsor Morton Dock	53	0.1	0.1	0.2	0.2	0.3	0.6	0.8	0.2	0.2	NIL
	13003	Bedford Ojibway, Windsor Post Office	55	0.1	0.1	0.2	0.2	0.3	0.6	0.8	0.2	0.1	NIL
	13023	10 Center St., Chatham RR #1, Behind	40	0.1	0.1	0.2	0.2	0.3	0.7	1.1	0.2	0.2	NIL
	13024	The Barn, Blenheim Jackson Farm	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	NIL
	13025	Blenheim RR #2, Behind	11	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	NIL
		The Barn, Merlin	11	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	NIL
	14001	General Hospital 220 Minton St., Sarnia	56	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.2	0.2	NIL
	14016	Opposite Lambton GS Hwy. 40, Courtright	328	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.1	0.1	NIL
	14030	RR #1, West of The House, Corunna	56	0.1	0.1	0.1	0.1	0.1	0.4	0.7	0.1	0.1	NIL
	14031	RR #1, West Side of Barn, Mooretown	56	0.1	0.1	0.1	0.1	0.1	0.4	0.6	0.1	0.1	NIL
	14054	Sarnia Yacht Club											
	14064	Port Edward, Sarnia Centennial Park	58	0.1	0.1	0.1	0.1	0.2	0.4	0.7	0.1	0.1	NIL
	15001	Front St. CN Tracks, Sarnia Western Fair Grounds	57	0.1	0.1	0.1	0.2	0.3	0.6	1.1	0.2	0.1	NIL
	15003	King Rectory London 362 Dundas St.	53	0.1	0.2	0.3	0.4	0.5	0.8	1.1	0.3	0.3	NIL
	15008	London Edgeware Rd., NNW of	57	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.2	0.1	NIL
		Varto Plant, St. Thomas	53	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.1	0.0	NIL
	17019	1401 Parkinson E. Woodstock	37	0.1	0.1	0.1	0.1	0.3	0.4	0.4	0.1	0.1	NIL
WEST	22071	Experimental Farm											
CENTRAL	26029	Simcoe Edna Frederick St.	55	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.1	0.1	NIL
	27008	Kitchener 71 King St.	52	0.1	0.2	0.6	1.0	1.2	1.4	1.5	0.6	0.5	NIL
		St. Catharines	58	0.1	0.1	0.2	0.2	0.3	0.6	0.7	0.2	0.2	NIL
	27037	North Geneva St. St. Catharines	58	0.1	0.2	0.2	0.3	0.5	1.0	1.1	0.3	0.2	NIL
	27049	Murray/Buchanan Ave Niagara Falls	54	0.1	0.1	0.1	0.2	0.3	0.7	1.0	0.1	0.1	NIL
	28024	95 Inkerman St. Guelph	54	0.1	0.1	0.1	0.2	0.3	1.0	1.2	0.2	0.1	NIL
	28025	Farquhar/Wyndham St. Guelph	56	0.1	0.1	0.1	0.2	0.3	0.8	1.0	0.2	0.1	NIL
WEST CENTRAL	29001	Hughson/Hunter Hamilton	52	0.2	0.2	0.3	0.4	0.6	1.0	1.1	0.3	0.3	NIL
CENTIAL	29008	North Park											
	29011	Hamilton Burlington/Leeds	338	0.1	0.3	0.5	0.7	1.0	1.4	1.8	0.5	0.4	NIL
	29012	Hamilton Burlington/Wellington	54	0.1	0.3	0.4	0.5	0.7	1.3	1.7	0.4	0.3	NIL
	29017	Hamilton Chatham Frid	55	0.1	0.2	0.3	0.4	0.5	0.9	1.1	0.3	0.3	NIL
	29025	Hamilton Barton/Wentworth	55	0.1	0.3	0.4	0.5	8.0	2.3	3.0	0.5	0.3	NIL
		Hamilton 450 Hughson St. N.	312	0.2	0.3	0.4	0.5	0.9	1.3	2.3	0.5	0.4	NIL
	29067	Hamilton	50	0.1	0.2	0.3	0.4	0.7	1.1	1.2	0.3	0.3	NIL
	29085	Upper Wellington/Inverness Hamilton	47	0.1	0.2	0.3	0.4	0.6	1.0	1.1	0.3	0.3	NIL
CENTRAL	31018	35 Bathurst St.											
	31058	Toronto Mosley/Leslie Sts.	151	0.2	0.4	0.5	0.9	1.3	2.4	3.2	0.7	0.5	NIL
	31064	Toronto 17 Berkshire Ave.	344	0.2	0.4	0.7	1.1	2.3	4.7	8.7	1.0	0.6	3
		Toronto	253	0.1	0.3	0.6	0.9	1.6	2.6	4.0	0.7	0.5	NIL
	31065	633 Eastern Ave. Toronto	34	0.1	0.2	0.3	0.6	1.0	1.2	1.2	0.4	0.2	NIL
	31079	Fire Hall, 1285 Duf- ferin St., Toronto	343	0.1	0.2	0.4	0.5	0.8	1.9	3.4	0.4	0.3	NIL
	31082	Works Dept. 138 Hamilton Ave., Toronto	343	0.2	0.3	0.5	0.7	1.1	2.0	4.0	0.6	0.4	NIL
	31084	Maydwell Mfg. 65 Saulter St., Toronto	340	0.1	0.2	0.3	0.5	0.9	1.7	2.8	0.4	0.3	NIL
	31085	Tecumseth Niagara St.											
		Toronto	277	0.3	0.7	1.2	2.0	4.9	12.3	33.3	2.1	1.1	27

Table 20 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERIA 24-HR
CENTRAL	31104	26 Breadalbane											
	31105	Toronto Hydro SS, Sherbourne	352	0.1	0.2	0.3	0.4	0.6	1.0	1.2	0.3	0.2	NIL
		Wilton St., Toronto	122	0.2	0.4	0.6	0.7	1.0	1.8	2.4	0.6	0.5	NIL
	31120	Junction Triangle Perth Ave., Toronto	113	0.1	0.1	0.2	0.3	0.6	1.4	2.5	0.3	0.2	NIL
	33003	Lawrence Kennedy Scarborough	111	0.1	0.2	0.4	0.5	0.7	1.4	1.9	0.4	0.3	NIL
	33019	Met. Branch, Scarborough											
	34002	Bluffs, Scarborough Science Centre	113	0.1	0.1	0.1	0.1	0.3	0.4	0.7	0.1	0.1	NIL
	34007	770 Don Mills Rd., North York Bathurst Wilson	109	0.1	0.2	0.2	0.3	0.6	0.9	1.9	0.3	0.2	NIL
		North York	105	0.2	0.5	0.7	1.1	1.8	3.4	3.6	0.9	0.6	NIL
	35003	Elmcrest Rd. Etobicoke	110	0.1	0.2	0.4	0.5	0.9	1.6	2.7	0.5	0.3	NIL
	35033	Evans Arnold Ave Etobicoke	109	0.3	0.5	0.7	1.0	1.5	2.1	2.2	0.8	0.7	NIL
	35037	3050 Lakeshore Blvd. W.											
	44015	Etobicoke Bronte Rd. Woburn Cres.	337	0.1	0.1	0.2	0.3	0.6	1.2	1.7	0.3	0.1	NIL
	45001	Oakville Pickering Fire Hall	116	0.1	0.1	0.2	0.2	0.4	0.9	1.2	0.2	0.1	NIL
		Pickering	281	0.1	0.2	0.3	0.4	0.5	8.0	1.0	0.3	0.3	NIL
	45011	Public Library Oshawa	71	0.1	0.2	0.2	0.3	0.4	0.7	1.1	0.3	0.2	NIL
	45025	Ritson Rd. Olive Ave. Oshawa	120	0.1	0.2	0.3	0.4	0.7	1.1	1.7	0.3	0.2	NIL
	46025	Mississauga Public Library											
	46033	Mississauga Bramalea Fire Hall	53	0.1	0.3	0.4	0.5	0.6	1.4	2.4	0.4	0.3	NIL
	46045	Bramalea 2365 Dixie Rd.	52	0.1	0.2	0.3	0.5	0.7	1.8	2.4	0.4	0.3	NIL
		Mississauga	346	0.3	0.6	0.9	1.4	2.9	7.7	9.3	1.4	0.8	14
	46046	2360 Dixie Rd. Mississauga	351	0.3	0.8	1.3	2.5	5.9	14.0	19.1	2.4	1.3	50
	46110	Queensway W./Huron- tario St., Mississauga	120	0.1	0.3	0.4	0.5	0.8	1.3	1.9	0.4	0.3	NIL
	47042	Armoury Bldg., Park											
	59006	Parkside St., Barrie City Hall	100	0.1	0.1	0.2	0.3	0.4	1.0	1.1	0.2	0.2	NIL
		500 George St., Peterborough	107	0.1	0.2	0.3	0.3	0.6	1.4	2.0	0.3	0.2	NIL
SOUTH	51001	McDonald Gdns., Rideau	55	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.2	0.2	NIII
EAST	52017	Wurtemburg, Ottawa 106 Clarence St.											NIL
	54013	Kingston Post Office Bldg.	10	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	NIL
	56051	Belleville Memorial Park	48	0.1	0.1	0.2	0.2	0.3	0.9	1.4	0.2	0.2	NIL
	30031	York Third St., Cornwall	59	0.1	0.1	0.2	0.2	0.4	0.8	0.9	0.2	0.2	NIL
NORTH	63005	Hospital, Archibald											
WEST	63022	Arthur, Thunder Bay Hospital, 35 Algoma St. N.	58	0.1	0.1	0.2	0.2	0.4	0.6	0.7	0.2	0.2	NIL
		Thunder Bay	59	0.1	0.1	0.2	0.2	0.4	0.6	0.6	0.2	0.2	NIL
	63040	435 James St. S. Thunder Bay	56	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.1	0.1	NIL
NORTH	71022	Sault College	40	0.1	0.1	0.1	0.0	0.6	1.0		0.2	0.1	No.
EAST	71042	Queen St., Sault Ste. Marie Bonney St. Pump House	49	0.1	0.1	0.1	0.2	0.6	1.0	1.1	0.2	0.1	NIL
	71049	Sault Ste. Marie Land Reg. Office	49	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.1	0.1	NIL
	75010	Queen St., Sault Ste. Marie OPP Station	32	0.1	0.1	0.1	0.2	0.3	0.5	0.5	0.2	0.1	NIL
		North Bay	45	0.1	0.1	0.1	0.2	0.6	0.8	0.8	0.2	0.2	NIL
	77016	Ash St. Water Tank Sudbury	56	0.1	0.1	0.1	0.2	0.3	0.6	0.8	0.2	0.1	NIL
	77026	19 Lisgar St. Sudbury	44	0.1	0.2	0.3	0.3	0.5	0.9	1.1	0.3	0.2	NIL
	77070	Nickel St. Pump House											
		Copper Cliff	39	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.2	0.1	NIL

Table 21 Summary of Data: Iron in Total Suspended Particulate Matter (all values in micrograms per cubic meter)
No Ontario Criterion

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	
SOUTH WEST	12002	City Hall	re	0.0	0.0		4.0	0.0	2.7		400		
WEST	12005	444 Windsor Ave., Windsor 7730 Riverside Dr. E.	55	0.6	0.9	1.3	1.8	2.3	3.7	4.2	1.4	1.2	
	12008	Windsor 467 University Ave. W.	55	0.1	0.4	0.5	8.0	1.1	2.2	2.7	0.6	0.4	
	12010	Windsor Tecumseh Sewage Stn.	320	0.4	0.7	1.0	1.5	2.3	4.6	5.4	1.2	1.0	
	12013	Manning Rd., Windsor Filtration Plant, 3665 Wyan-	57	0.2	0.3	0.4	0.6	1.1	2.1	2.4	0.6	0.4	
	12014	dotte St. E., Windsor Univ. Met. Stn.	56	0.5	1.1	1.9	3.6	6.3	10.7	14.7	2.8	1.8	
	12015	College Calif. St., Windsor Sewage Plant	44	0.6	0.9	1.5	2.0	2.8	4.5	5.6	1.6	1.4	
		Hwy. 18 Prospect, Windsor	54	0.5	1.0	1.3	1.9	3.0	10.1	27.1	2.0	1.2	
	12016	College South St. Windsor	55	0.6	0.8	1.4	1.7	2.8	7.7	9.8	1.6	1.2	
	12032	Morton Dock Bedford Ojibway, Windsor	55	0.5	0.9	1.2	1.7	2.7	5.1	6.3	1.5	1.2	
	12038	2885 Howard Ave. Windsor	32	0.9	1.4	2.5	3.5	7.1	31.5	38.2	4.4	2.3	
	12039	Dougall/E.C. Rowe W. Windsor	54	0.4	0.7	1.0	1.6	2.5	7.8	12.4	1.5	1.0	
	13003	Post Office 10 Center St., Chatham	44	0.3	0.5	0.6	0.8	1.2	1.7	2.0	0.7	0.6	
	13023	RR #1, Behind The Barn, Merlin											
	13024	Jackson Farm	10	0.2	0.3	0.5	0.8	1.2	1.9	2.0	0.7	0.5	
	13025	Blenheim RR #2, Behind	11	0.2	0.4	0.5	0.7	1.6	2.6	2.8	0.8	0.6	
	14001	The Barn, Merlin General Hospital	11	0.2	0.3	0.5	0.6	1.3	2.3	2.4	0.7	0.5	
	14016	220 Minton St., Sarnia Opposite Lambton GS	58	0.2	0.3	0.4	0.5	1.2	1.5	1.9	0.5	0.4	
	14030	Hwy. 40, Courtright RR #1, West of	339	0.2	0.3	0.4	0.5	0.9	2.2	3.1	0.5	0.4	
	14031	The House, Corunna RR #1, West Side	56	0.1	0.3	0.4	0.5	8.0	2.6	3.5	0.5	0.3	
		of Barn, Mooretown Centennial Park	58	0.2	0.2	0.4	0.5	8.0	2.3	3.7	0.5	0.3	
	14064	Front St. CN Tracks, Sarnia	57	0.3	0.4	0.5	0.7	1.2	2.5	2.9	0.7	0.5	
	15001	Western Fair Grounds King Rectory, London	55	0.2	0.4	0.5	0.8	1.5	2.2	2.7	0.7	0.5	
WEST	22071	Experimental Farm											
CENTRAL	26029	Simcoe Edna/Frederick St.	56	0.1	0.1	0.3	0.5	0.7	2.1	3.1	0.4	0.2	
	27008	Kitchener 71 King St.	54	0.2	0.4	0.5	0.7	1.4	2.6	2.7	0.7	0.5	
	28024	St. Catharines 95 Inkerman St.	57	0.3	0.4	0.6	0.9	1.4	2.0	2.1	0.7	0.6	
	29001	Guelph Hughson Hunter	57	0.1	0.3	0.5	0.8	1.3	2.3	2.5	0.7	0.4	
		Hamilton	55	0.3	0.6	1.2	2.8	7.4	17.7	17.8	3.0	1.3	
	29008	North Park Hamilton	337	0.7	1.5	2.8	4.7	8.3	14.1	16.3	3.8	2.5	
	29011	Burlington Leeds Hamilton	57	0.8	2.3	4.4	8.1	16.5	35.7	42.0	7.1	3.8	
	29012	Burlington Wellington Hamilton	59	0.6	1.2	1.8	2.6	5.5	10.3	11.5	2.5	1.8	
	29017	Chatham Frid Hamilton	59	0.6	1.3	2.1	3.4	8.4	16.3	19.5	3.4	2.1	
	29025	Barton Wentworth Hamilton	335	0.8	1.4	2.3	4.1	10.3	19.4	27.9	4.1	2.5	
WEST CENTRAL	29067	450 Hughson St. N. Hamilton											
CENTRAL	29085	Upper Wellington Inverness	53	0.4	0.9	1.5	2.3	3.4	8.0	8.5	2.0	1.4	
conservation (Conservation)		Hamilton	49	0.3	0.6	0.9	2.5	8.5	15.2	16.3	2.8	1.2	
CENTRAL	31018	35 Bathurst St. Toronto	150	0.7	1.4	2.3	3.1	4.5	6.0	6.7	2.5	2.0	
	31058	Mosley Leslie Sts. Toronto	343	0.5	0.8	1.2	1.8	3.1	5.6	10.6	1.6	1.1	
	31064	17 Berkshire Ave. Toronto	252	0.4	0.9	1.2	1.7	2.7	4.9	6.8	1.4	1.1	
	31065	633 Eastern Ave. Toronto	34	0.5	0.7	0.8	1.1	1.9	3.9	4.0	1.1	0.9	
	31104	26 Breadalbane Toronto	353	0.3	0.6	0.8	1.1	1.8	3.3	4.3	0.9	0.7	
	33003	Lawrence Kennedy											
		Scarborough	119	0.2	0.4	0.6	0.8	1.0	2.0	2.3	0.6	0.5	

Table 21 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
CENTRAL	34002	Science Centre										
		770 Don Mills Rd., North York	115	0.2	0.3	0.4	0.7	1.0	1.9	3.2	0.6	0.4
	34007	Bathurst/Wilson										2.2
	25222	North York	79	0.3	0.6	0.8	1.1	1.8	2.9	3.3	0.9	0.7
	35033	Evans Arnold Ave.	79	0.4	0.5	0.8		1.5	2.3	2.4	0.9	0.7
	45001	Etobicoke Pickering Fire Hall	79	0.4	0.5	0.6	1.1	1.5	2.3	2.4	0.9	0.7
	45001	Pickering Fire Hall	281	0.2	0.4	0.6	1.0	1.3	1.7	2.1	0.7	0.5
	45011	Public Library	201	0.2	0.4	0.0	1.0	1.50	1	2.1	0.7	0.5
	45011	Oshawa	115	0.2	0.4	0.6	0.9	1.5	2.1	3.0	0.8	0.6
	46025	Mississauga Public Library		-		0.0	0.0			0.0	0.0	
	10.555	Mississauga	54	0.3	0.7	0.9	1.1	2.3	3.2	3.8	1.1	0.8
	46033	Bramalea Fire Hall										
		Bramalea	52	0.2	0.4	0.7	1.1	2.2	3.0	3.0	0.9	0.6
	47042	Armoury Bldg., Park										
		Parkside St., Barrie	100	0.1	0.2	0.3	0.5	0.8	2.1	2.7	0.4	0.3
	59006	City Hall										
		500 George St., Peterborough	109	0.2	0.3	0.4	0.6	1.1	2.1	2.5	0.5	0.4
OUTH	51001	McDonald Gdns., Rideau										
AST		Wurtemburg, Ottawa	55	0.1	0.2	0.3	0.4	0.7	1.2	1.3	0.4	0.3
	52017	106 Clarence St.										
	2000	Kingston	10	0.2	0.4	0.4	0.6	1.1	1.5	1.5	0.6	0.5
	54013	Post Office Bldg.	**	0.0	0.4	0.5	0.7		0.4	0.	0.7	0.5
	50054	Belleville	48	0.3	0.4	0.5	0.7	1.5	2.1	2.1	0.7	0.5
	56051	Memorial Park York/Third St., Cornwall	58	0.1	0.2	0.4	0.6	0.9	1.4	1.5	0.5	0.4
		TOIR THIRD St., COITIWAII	30	0.1	0.2	0.4	0.0	0.5	1.4	1.3	0.5	0.4
NORTH	63005	Hospital, Archibald			10175557	10 - 60 - 1	pr - 20		G2 192	11001100	301.75811	0.000.40
WEST		Arthur, Thunder Bay	58	0.3	0.7	1.0	1.5	2.8	5.4	6.2	1.4	1.0
	63022	Hospital, 35 Algoma St. N.										
		Thunder Bay	59	0.1	0.4	0.7	1.0	2.6	3.4	3.8	1.0	0.5
NORTH	71022	Sault College										
EAST		Queens St., Sault Ste. Marie	49	0.7	1.4	2.9	5.0	7.7	12.4	12.7	3.7	2.5
	71042	Bonney St. Pump House										
		Sault Ste. Marie	49	1.2	3.4	4.7	7.8	14.7	29.9	31.6	7.0	4.7
	71049	Land Reg. Office	24	400	2002				2.3			0.5
		Queen St., Sault Ste. Marie	45	0.1	0.4	0.7	0.9	2.3	5.1	7.7	1.0	0.5
	75010	OPP Station	45	0.0	0.4	0.5	0.6		0.4	2.0	0.6	0.5
	77016	North Bay Ash St. Water Tank	45	0.2	0.4	0.5	0.6	1.0	2.4	2.9	0.6	0.5
	77010	Sudbury	56	0.3	0.4	0.7	0.9	1.8	12.3	13.9	1.3	0.7
	77026	19 Lisgar St.	30	0.5	0.4	0.7	0.5	1.0	12.3	13.3	1.5	J. /
	77020	Sudbury	43	0.3	0.5	0.7	0.9	2.3	9.7	14.3	1.3	0.7
	77070	Nickel St. Pump House							-10	1000000		1.000.00
	analesa (E)	Copper Cliff	53	0.4	0.9	1.3	1.9	3.0	44.6	51.5	3.6	1.4
	77076	Post Office										
		Falconbridge	43	0.1	0.3	0.6	1.0	3.0	5.0	6.1	1.1	0.6

Table 22 Summary of Data: Nickel in Total Suspended Particulate Matter (all values in micrograms per cubic meter)
Ontario Criterion – 24 hour average: 2.0 ug/m³

	STATION		NO. OF			PERCE	NTILES			MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HOUR
SOUTH	12002	City Hall											
WEST		444 Windsor Ave., Windsor	55	.003	.004	.006	.008	.012	.025	.027	007	.005	NIL
	12005	7730 Riverside Dr. E.		200	200	-	2.7	200	0.000	225	2000	222	
		Windsor	55	.001	.005	.009	.011	.016	.074	.085	.011	.005	NIL
	12008	467 University Ave. W. Windsor	319	.001	.003	.005	.008	.013	.025	.071	.007	.004	NIL
	12010	Tecumseh Sewage Stn.											
		Manning Rd., Windsor	57	.001	.005	.006	.007	.010	.015	.018	.006	.004	NIL
	12013	Filtration Plant, 3665 Wyan-			222		0.40	040	000	000	000	000	
		dotte St. E., Windsor	56	.003	.006	.008	.010	.016	.028	.029	.009	.008	NIL
	12014	Univ. Met. Stn. College Calif. St., Windsor	44	.003	.005	.009	.013	.016	.073	.149	.012	.007	NIL
	12015	Sewage Plant	44	.003	.003	.009	.013	.010	.073	.143	.012	.007	MIL
	12013	Hwy. 18/Prospect, Windsor	54	.001	.004	.007	.010	.017	.058	.102	.009	.004	NIL
	13003	Post Office											
		10 Center St., Chatham	44	.001	.001	.001	.002	.006	.008	.008	.002	.001	NIL
	13023	RR #1, Behind											
		The Barn, Blenheim	10	.003	.003	.005	.006	.006	.007	.007	.005	.004	NIL

Table 22 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
	13024	Jackson Farm		002	.004	.005	007	.008	000	008	.005	.004	NIL
	13025	Blenheim RR #2, Behind	11	.003	.004	.005	.007	.008	.008	.008	.005	.004	NIL
	14001	The Barn, Merlin General Hospital	11	.002	.003	.005	.005	.006	.006	.006	.004	.004	NIL
	14001	220 Mitton St., Sarnia	58	.001	.003	.006	.008	.026	.054	.058	.010	.004	NIL
	14016	Opposite Lambton GS Hwy. 40, Courtright	339	.001	.002	.004	.006	.013	046	.100	.006	.003	NIL
	14030	RR #1, West of											
	14031	The House, Corunna RR #1, West Side	58	.001	.001	.002	.003	.006	.008	.009	.003	.001	NIL
		of Barn, Mooretown	55	.001	.001	.002	.005	.007	.011	.013	.003	.001	NIL
	14064	Centennial Park Front St./CN Tracks, Sarnia	53	.001	.005	.008	.010	.018	.052	.067	.009	.004	NIL
	15001	Western Fair Grounds											
		King/Rectory, London	53	.001	.001	.003	.004	.006	.010	.014	.003	.001	NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	56	.001	.001	.001	.002	.006	.010	.010	.002	.001	NIL
CLIVITAL	26029	Edna Frederick St.											
	27008	Kitchener 71 King St.	54	.001	.001	.002	.004	.007	.011	.016	.003	.001	NIL
		St. Catharines	54	.001	.001	.002	.003	.006	.017	.041	.003	.001	NIL
	27030	Killaly E/James Port Colborne	55	.006	.013	.019	.040	.219	591	.819	.076	.026	NIL
	27047	Davis Frazer											
	28024	Port Colborne 95 Inkerman St.	60	.009	.022	.039	.108	.425	2.912	3.050	.258	.060	3
		Guelph	56	.001	.001	.002	.003	.006	.011	.012	.003	.001	NIL
	29001	Hughson Hunter Hamilton	55	.001	.002	.004	.006	.011	.020	.021	.005	002	NIL
	29008	North Park Hamilton	337	.001	.003	.005	.008	.020	.028	.055	.006	.003	NIL
	29011	Burlington Leeds	337	.001	.003		.006		.026	.055			
	29012	Hamilton Burlington/Wellington	57	.001	.004	006	.011	.022	.036	042	.009	.005	NIL
		Hamilton	59	.002	.004	005	.006	.009	.022	.026	.006	.004	NIL
	29017	Chatham/Frid Hamilton	59	.002	.004	.007	.011	.022	.031	.032	.010	.006	NIL
	29025	Burlington Wellington											
	29067	Hamilton 450 Hughson St. N.	335	.002	.004	.006	010	.020	.041	.068	.009	.006	NIL
		Hamilton	53	.002	.004	006	.007	.013	.022	.023	.007	.005	NIL
	29085	Upper Wellington/Inverness Hamilton	49	.001	.001	.002	.005	.013	.021	.024	.004	.002	NIL
CENTRAL	31018	35 Bathurst St.											
	31058	Toronto Mosley/Leslie Sts.	150	.003	.006	.007	.009	.015	.023	.025	.008	.006	NIL
		Toronto	344	.001	.001	.005	.008	.013	021	.060	.006	.002	NIL
	31064	17 Berkshire Ave. Toronto	252	.001	.003	.006	.007	.012	.026	.072	.006	.003	NIL
	31065	633 Eastern Ave. Toronto	34	.001	.004	.007	.009	.013	.023	.025	.007	.003	NIL
	31104	26 Breadalbane	34	.001	.004	.007	.009	.013	.023	.023	.007	.003	INIL
	33003	Toronto Lawrence Kennedy	347	.001	.001	.005	.007	.013	.028	.110	.006	.002	NIL
		Scarborough	77	.001	.001	001	.001	.002	.007	.008	.001	.000	NIL
	34002	Science Centre 770 Don Mills Rd., North York	110	.001	.001	.001	004	010	.020	.037	.003	.001	NIL
	34007	Bathurst Wilson											
	35003	North York Elmcrest Rd.	79	.001	.001	.001	.003	.006	.042	.069	.003	001	NIL
		Etobicoke	116	.001	.001	.003	.006	.012	.020	.090	.005	.001	NIL
	35033	Evans/Arnold Ave. Etobicoke	78	.001	.001	.003	.005	009	.013	.013	.003	.001	NIL
8	35037	3050 Lakeshore Blvd. W.											
	45001	Etobicoke Pickering Fire Hall	330	.001	.005	.009	.016	.036	210	.615	.021	.007	NIL
		Pickering	277	.001	.001	.002	.003	.006	.011	.014	.002	.001	NIL
	45011	Public Library Oshawa	115	.001	.001	.001	.004	.007	010	.010	002	.001	NIL
	46025	Mississauga Public Library Mississauga	53	.001	.002	.003	.006	.011	.026	.029	.005	.003	NIL
	46033	Bramalea Fire Hall											
	47042	Bramalea Armoury Bldg., Park	51	.001	.001	.001	.002	.007	.009	.009	.002	.001	NIL
	47042	Parkside St., Barrie	93	.001	.001	.001	.002	.004	.007	.007	.001	.001	NIL
	59006	City Hall	-	002020004				110000 11					

Table 22 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
SOUTH	51001	McDonald Gdns Rideau											
EAST	120000000000000000000000000000000000000	Wurtemburg St., Ottawa	55	.001	.002	.002	.004	.007	.011	.012	003	.002	NIL
	52017	106 Clarence St. Kingston	10	.001	.001	.002	.002	.004	.004	.004	.002	.001	NIL
	54013	Post Office Bldg. Belleville	48	.001	.001	.001	.002	.003	.006	006	.001	.001	NIL
	56051	Memorial Park									Policina de la constanta de la	.001	
		York/Third St., Cornwall	58	.002	.004	.006	.010	.014	.022	.026	.007	.005	NIL
NORTH WEST	63005	Hospital, Archibald Arthur St., Thunder Bay	58	.001	.001	.001	.002	.003	.006	.007	.001	.001	NIL
	63022	Hospital, 35 Algoma St. N.								.007		.001	
		Thunder Bay	59	.001	.001	.001	.002	.004	.006	.008	.001	.001	NIL
NORTH	71022	Sault College											
EAST	71042	Queens St., Sault Ste. Marie Bonney St. Pumphouse	49	.001	.001	.004	.005	.008	.010	.010	.004	.002	NIL
		Sault Ste. Marie	49	.001	.003	.004	.007	.014	.016	.017	.006	.003	NIL
	71049	Land Reg. Office Queen St., Sault Ste, Marie	45	.001	.001	.001	.003	.317	.878	1.283	088	.001	NIL
	75010	OPP Station						.017	.070	1.200	.000	.001	THE
	77016	North Bay Ash St. Water Tank	45	.001	.002	.002	.003	.006	.024	.028	.003	.002	NIL
	77016	Sudbury	56	.004	.011	.021	.044	.121	1.382	1.698	.093	023	NIL
	77026	19 Lisgar St.	43	.004	.009	010	000	200	coo	004	000	000	.
	77070	Sudbury Nickel St. Pump House	43	.004	.009	.018	.026	.206	.699	.804	083	.020	NIL
	77070	Copper Cliff	52	.001	.034	048	.099	.252	.670	1.170	.108	.025	NIL
	77076	Post Office Falconbridge	43	.002	.007	.020	.046	.116	.243	.250	.044	.016	NIL

Table 23 Summary of Data: Copper in Total Suspended Particulate Matter (all values in micrograms per cubic meter)
Ontario Criterion – 24 hour average: 50.0 ug/m³

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
SOUTH	12002	City Hall											
WEST	12002	444 Windsor Ave., Windsor	55	.03	.04	.05	06	.07	.12	.15	.05	.05	NIL
WEST	12005	7730 Riverside Dr. E.	33	.03	.04	.03	.00	.07	.12	.13	.05	.05	MIL
	12003	Windsor	55	.01	.03	.04	.06	.10	.32	.67	.06	.04	NIL
	12008	467 University Ave. W.	55	.0.1	.03	.04	.00	. 10	.02	.07	.00	.04	INIL
	12000	Windsor	320	.03	.06	.09	.16	32	.61	.68	.15	.10	NIL
	12010	Tecumseh Sewage Stn.	/0.00	.00	.00	.00	. 10	JOE		.00		. 10	INIL
		Manning Rd., Windsor	57	.05	.11	.14	.17	21	.27	.30	14	.12	NIL
	12013	Filtration Plant, 3665 Wyan-								18.52		935	0.000
		dotte St. E., Windsor	53	.07	.12	.15	.35	.49	.57	.63	.24	.18	NIL
	12014	Univ. Met. Stn.											
		College Calif. St., Windsor	44	.05	.08	.10	.14	.18	.28	.28	.12	10	NIL
	12015	Sewage Plant											
		Hwy. 18 Prospect, Windsor	54	.05	.09	.12	.16	24	1.60	3.09	.20	.11	NIL
	13003	Post Office											
	2002000	10 Center St., Chatham	44	.10	.17	.26	.32	.51	.64	.70	.27	.23	NIL
	13023	RR #1, Behind	0.025	8283	1212	0208							
	70.000.00	The Barn, Blenheim	10	.01	.03	.05	.09	.15	.15	.15	.07	.05	NIL
	13024	Jackson Farm	90.0	1961.00		790700		194110	200	17.00	10004422117	1227227	27020
	10005	Blenheim	11	.01	.02	.02	.02	.04	.05	.05	.02	.02	NIL
	13025	RR #2, Behind	2.2	0.4	00	0.0	0.7						
	14001	The Barn, Merlin	11	.01	.02	.06	.07	.10	.14	.14	.06	.04	NIL
	14001	General Hospital 220 Mitton St., Sarnia	58	.06	.13	.16	.22	.31	.59	.81			****
	14016	Opposite Lambton GS	58	.06	.13	.16	.22	.31	.59	.81	.19	.15	NIL
	14010	Hwy. 40, Courtright	339	.04	.12	.19	30	.62	1.31	1.71	.28	.17	NIL
	14030	RR #1. West of	553	.04	12	.13	30	.02	1.51	1 - 7 1	.20		IVIL
	14000	The House, Corunna	58	.04	.06	.09	.16	.20	.25	.29	.11	.09	NIL
	14031	RR #1. West Side	50		.00	.00		-20	.23	.23	-3.4	.03	INIL
		of Barn, Mooretown	58	.06	.09	.12	.15	.21	.27	.29	.13	.11	NIL
	14064	Centennial Park		1 average	-558	3500	CHAT		12.555	- 20		56,6,161	
		Front St./CN Tracks, Sarnia	56	.01	.05	.15	.27	.72	2.98	6.08	.36	.11	NIL
	15001	Western Fair Grounds											
		King/Rectory, London	56	.08	.11	.14	.17	.24	.63	1.08	.17	.13	NIL

Table 23 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOV CRITERION 24-HOUR
WEST	22071	Experimental Farm	contract		1174/45	AND HE	07475	2002 4 13	200 500	of the form	9645100	guse:	
CENTRAL	26029	Simcoe Trailer, Edna	56	.01	.13	23	.29	.40	.55	.58	.22	.13	NIL
		Frederick St., Kitchener	54	.07	.15	.33	.41	.60	1.09	1.33	.34	.24	NIL
	27008	71 King St. St. Catharines	57	.08	.11	.13	.16	.23	34	.40	.14	.13	NIL
	28024	95 Inkerman St.											
	29001	Guelph Hughson/Hunter	57	.25	.39	.63	.95	1.37	2.34	2.69	.76	.59	NIL
		Hamilton	55	.03	.04	.08	.11	.15	.16	.17	.08	.07	NIL
	29008	North Park Hamilton	337	.05	.11	.16	.23	.39	.77	.84	20	.15	NIL
	29011	Burlington/Leeds Hamilton	57	12	.19	.24	30						
	29012	Burlington Wellington			.19	.24	.30	.58	1.42	1.45	.32	.24	NIL
	29017	Hamilton Chatham Frid	59	.09	.13	.16	.20	.28	56	.65	.18	.16	NIL
		Hamilton	59	.07	.09	.13	.17	.25	.33	.35	.14	.13	NIL
	29025	Barton/Wentworth Hamilton	336	.12	.18	23	.30	48	.83	1.12	28	.23	NIL
	29067	450 Hughson St. N.											
	29085	Hamilton Upper Wellington/Inverness	53	.09	.15	.18	.22	.29	.37	40	.19	.17	NIL
OFNITON		Hamilton	49	.06	.10	.14	.17	.24	.50	.68	.15	.13	NIL
CENTRAL	31018	35 Bathurst St. Toronto	150	.09	.13	.17	.22	.32	.45	1.80	.20	.17	NIL
	31058	Mosley Leslie Sts. Toronto	345	.05	00	10	10			1 00			
	31064	17 Berkshire Ave.	345	.05	.09	.13	.18	.28	.60	1.29	.15	.12	NIL
	31065	Toronto 633 Eastern Ave.	252	.09	.18	.25	.33	.50	2.25	2.60	.33	.23	NIL
		Toronto	34	.05	.09	.15	.17	.21	.29	.30	.14	.11	NIL
	31104	26 Breadalbane Toronto	348	.06	.10	.13	.19	.27	.38	.46	.15	.12	NIL
	33003	Lawrence Kennedy											
	34002	Scarborough Science Centre	78	.08	.15	.17	.25	.37	.62	1.37	.22	.17	NIL
		770 Don Mills Rd., North York	116	08	.15	22	.28	.37	.51	.86	.23	20	NIL
	34007	Bathurst/Wilson North York	79	.05	.07	.09	.10	.13	.42	.48	.10	.08	NIL
	35003	Elmcrest Rd. Etobicoke	116	.02	.07	.15	.23	.32	.43	.49	16	• •	NIII
	35033	Evans Arnold Ave.		.02	.07	.15	.23	.32	.43	.49	.16	.11	NIL
	35037	Etobicoke 3050 Lakeshore Blvd. W.	79	.04	.06	.10	.18	.23	.31	.33	.12	.08	NIL
		Etobicoke	333	.08	.13	.19	.28	.55	1.22	1.50	.26	.19	NIL
	45001	Pickering Fire Hall Pickering	281	.06	.12	.19	.39	.68	1.15	3.90	.31	.20	NIL
	45011	Public Library											
	46025	Oshawa Mississauga Public Library	115	.03	.05	.09	.17	.37	1.16	1.37	.17	.10	NIL
		Mississauga	54	.10	.18	.25	.32	.52	.88	1.22	.29	.23	NIL
	46033	Bramalea Fire Hall Bramalea	52	.05	.09	.15	.19	.27	.58	.89	.17	.12	NIL
	47042	Armoury Bldg., Park											
	59006	Parkside St., Barrie City Hall	100	.07	.11	.15	.20	.27	.66	.83	.17	.14	NIL
		500 George St., Peterborough	110	.11	.16	.19	.22	.28	.66	.70	.21	.18	NIL
SOUTH	51001	McDonald Gdns., Rideau											
EAST	52017	Wurtemburg St. Ottawa 106 Clarence St.	55	.14	.21	.25	.33	.51	.66	.66	.29	.26	NIL
		Kingston	10	.04	.15	.24	.28	.34	.42	.43	.22	.16	NIL
	54013	Post Office Bidg. Belleville	48	.07	.11	.17	.24	.28	.31	.31	.18	.15	NIL
	56051	Memorial Park											
		York Third St., Cornwall	58	.08	.14	.19	.30	.48	.70	.87	.24	.19	NIL
NORTH	63005	Hospital, Archibald		00	0.4	00	4.0	00	00	25			
WEST	63022	Arthur St., Thunder Bay Hospital, 35 Algoma St. N.	58	.03	.04	.09	.16	.22	.28	.35	.11	.08	NIL
		Thunder Bay	59	.06	.08	.09	.12	.16	.21	.25	.10	.10	NIL
NORTH	71022	Sault College											
EAST	71042	Queens St., Sault Ste. Marie Bonney St. Pump House	49	.03	.07	.33	.59	1.67	2.99	3.00	.63	.24	NIL
		Sault Ste. Marie	49	.03	.04	.06	.09	.11	.15	.15	.07	.06	NIL
	71049	Land Reg. Office Queen St., Sault Ste. Marie	45	.02	.11	.20	.26	.43	1.35	2.27	.26	.13	NIL
	75010	OPP Station											
		North Bay	45	.19	.25	.30	.60	.87	1.88	2.44	.49	.38	NIL

Table 23 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
	77016	Ash St. Water Tank											
		Sudbury	56	.12	.17	.24	.34	.46	1.41	1.67	.30	.24	NIL
	77026	19 Lisgar St.											
		Sudbury	43	.08	.23	.42	.69	.91	1.07	1.11	.46	.33	NIL
	77070	Nickel St. Pump House											
		Copper Cliff	52	.11	.18	.21	.32	.65	1.33	1.37	.34	.25	NIL
	77076	Post Office											
		Falconbridge	43	.16	.22	.36	.59	.77	1.40	1.72	46	.37	NIL

Table 24 Summary of Data: Cadmium in Total Suspended Particulate Matter (all values in micrograms per cubic meter)
Ontario Criterion – 24 hour average: 2.0 ug/m³

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
SOUTH	12002	City Hall											
WEST	12005	444 Windsor Ave., Windsor 7730 Riverside Dr. E.	55	.001	.001	.002	.003	.007	.012	.014	003	.002	NIL
		Windsor	55	.002	.003	.004	.006	.010	.020	022	.005	.002	NIL
	12008	467 University Ave. W. Windsor	319	.001	.001	.001	.003	.006	.017	.027	.003	.002	· NIL
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	57	.001	.001	.001	.002	.003	.004	.005	.002	.001	NIL
	12013	Filtration Plant, 3665 Wyan- dotte St. E., Windsor	56	.001	.001	.002	.003	.006	.013	.014	.003	.002	NIL
	12014	Univ. Met. Stn.											
	12015	College Calif. St., Windsor Sewage Plant	44	.001	.002	.002	.004	.009	.021	.029	.004	.003	NIL
	13003	Hwy. 18 Prospect, Windsor Post Office	54	.001	.002	.002	.003	.011	.043	.074	.005	.003	NIL
	13023	10 Center St., Chatham RR #1, Behind	44	.001	.001	.001	.001	.002	.002	.002	.001	.000	NIL
		The Barn, Blenheim	10	.001	.001	.001	.001	.001	.001	.001	.001	.001	NIL
	13024	Jackson Farm Blenheim	11	.001	.001	.001	.001	.001	.002	002	.001	.001	NIL
	13025	RR #2, Behind The Barn, Merlin	11	.001	.001	.001	.001	.002	.003	.003	.001	.001	NIL
	14001	General Hospital 220 Mitton St., Sarnia	57	.001	.001	001	.001	.001	.002	.003	.001	.001	NIL
	14016	Opposite Lambton GS Hwy. 40, Courtright		.001	.001	.001	.001	.001	.002	.004		10000	
	14030	RR #1, West of	338								.001	.000	NIL
	14031	The House, Corunna RR #1, West Side	58	.001	.001	.001	.001	.001	.002	.002	.001	.000	NIL
	14064	of Barn, Mooretown Centennial Park	54	.001	.001	.001	.001	.001	.002	.002	.000	.000	NIL
	15001	Front St. CN Tracks, Sarnia Western Fair Grounds	56	.001	.001	.001	001	.002	.005	.008	.001	.001	NIL
	15001	King Rectory, London	55	.001	.001	.001	.001	.002	.002	.003	.001	.001	NIL
WEST	22071	Experimental Farm											
CENTRAL	26029	Simcoe Trailer, Edna Frederick St.	55	.001	.001	.001	.001	.001	.012	.043	.001	.001	NIL
	27008	Kitchener 71 King St.	54	.001	.001	.001	.001	.002	.002	.002	.001	.001	NIL
		St. Catharines	57	.001	.001	.001	.001	.001	.001	.002	.001	.001	NIL
	28024	95 Inkerman St. Guelph	53	.001	.001	.001	.001	.002	.002	.003	.001	.001	NIL
	29001	Hughson/Hunter Hamilton	55	.001	.001	.001	.002	.003	.006	.008	.002	.001	NIL
	29008	North Park Hamilton	337	.001	.001	.001	.001	.002	.004	.005	.001	.001	NIL
	29011	Burlington/Leeds											
	29012	Hamilton Burlington/Wellington	57	.001	.001	.002	.002	.005	.016	.016	.002	.001	NIL
	29017	Hamilton Chatham/Frid	59	.001	.001	.001	.002	.003	.008	.012	.002	.001	NIL
	29025	Hamilton Barton/Wentworth	59	.001	.001	.001	.002	.003	.007	.009	.002	.001	NIL
		Hamilton	336	.001	.001	.001	.002	.004	.014	.026	.002	.001	NIL
	29067	450 Hughson St. N. Hamilton	53	.001	.001	.001	.002	.002	.007	.008	.002	.001	NIL
	29085	Upper Wellington/Inverness Hamilton	49	.001	.001	.001	.001	.003	.004	.004	.001	.001	NIL
		Hamilton	49	.001	.001	.001	.001	.003	.004	.004	.001	.001	NIL

Table 24 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCEN 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
CENTRAL	31018	35 Bathurst St.											
	31058	Toronto Mosley Leslie Sts.	150	.001	.002	.004	.005	.007	.021	.041	.004	003	NIL
		Toronto	344	.001	.001	.002	.004	.006	.012	.024	.003	.002	NIL
	31064	17 Berkshire Ave. Toronto	252	.001	.002	.002	.004	.007	.024	.087	.004	.002	NIL
	31065	633 Eastern Ave. Toronto	34	.001	.002	.002	004	010	.015	.015	.004	002	NIL
	31104	26 Breadalbane Toronto	352	.001	.001	.002	.002	.004	.009	.015	.002	.001	NIL
	31120	Junction Triangle											
	33003	Perth Ave., Toronto Lawrence Kennedy	113	.001	.001	.001	.002	.004	.007	.013	.002	.001	NIL
		Scarborough Science Centre	78	.001	.001	.001	-001	.002	.003	.004	.001	001	NIL
	34002	770 Don Mills Rd., North York	116	.001	.001	.001	.002	003	006	.013	.002	.001	NIL
	34007	Bathurst/Wilson North York	78	.001	.001	.001	.002	.003	.015	.086	.003	.001	NIL
	35003	Elmcrest Rd. Etobicoke	115	001	.001	.001	.002	004	.004	.004	002	001	NIL
	35033	Evans Arnold Ave											
	35037	Etobicoke 3050 Lakeshore Blvd. W.	79	.001	.001	.002	.002	.004	.008	.008	.002	.002	NIL
	45001	Etobicoke Pickering Fire Hall	332	.001	.001	.003	.004	.022	.116	.175	.009	.003	NIL
	45011	Pickering	277	.001	.001	.001	.001	002	.004	.006	.001	.001	NIL
		Public Library Oshawa	115	.001	.001	.001	.002	002	.004	.005	.001	.001	NIL
	46025	Mississauga Public Library Mississauga	54	.001	.001	.001	.001	.002	.006	.008	.001	.001	NIL
	46033	Bramalea Fire Hall Bramalea	52	.001	.001	.001	.001	.003	.003	.004	.001	.001	NIL
	47042	Armoury Bldg., Park											
	59006	Parkside St., Barrie City Hall	99	.001	.001	.001	.001	.002	.004	.004	.001	.001	NIL
		500 George St., Peterborough	111	.001	.001	.001	.001	.001	.003	.004	.001	.001	NIL
SOUTH	51001	McDonald Gdns., Rideau Wurtemburg St., Ottawa		201	004	204	204	004	007	207	201	004	
EAST	52017	106 Clarence St.	55	.001	.001	.001	.001	.001	.007	.007	001	.001	NIL
	54013	Kingston Post Office Bldg.	10	.001	.001	.001	.001	.002	.002	.002	.001	.001	NIL
	56051	Belleville Memorial Park	47	.001	.001	.001	.001	.001	.003	.005	.001	.000	NIL
	30031	York Third St., Cornwall	58	.001	.001	.001	.001	.003	.007	.016	.001	.001	NIL
NORTH	63005	Hospital, Archibald											
WEST	63022	Arthur St., Thunder Bay Hospital, 35 Algoma St. N.	58	.001	.001	.001	.001	.001	.002	.002	.000	.000	NIL
		Thunder Bay	59	.001	.001	.001	.001	.001	.001	.001	.000	.000	NIL
NORTH	71022	Sault College		1500		-		11 <u></u>	VIII.		22_040-		general.
EAST	71042	Queens St., Sault Ste. Marie Bonney St. Pump House	49	.001	.001	.001	.001	.002	.006	.010	.001	.001	NIL
	71049	Sault Ste. Marie Land Reg. Office	49	.001	.001	.001	.001	.003	.004	.005	.001	.001	NIL
		Queen St., Sault Ste. Marie	45	.001	.001	.001	.001	.001	.010	.028	.001	.001	NIL
	75010	OPP Station North Bay	45	.001	.001	.001	.001	.004	.008	.008	.001	.001	NIL
	77016	Ash St. Water Tank Sudbury	57	.001	.001	.001	.001	.003	.022	.026	002	.001	NIL
		Gudbury	57	.001	.001	.001	.001	.003	UZZ	020	002	.001	INIL

Table 25 Summary of Data: Chromium in Total Suspended Particulate Matter (all values in micrograms per cubic meter)
Ontario Criterion – 24 hour average: 1.5 ug/m³

•													TIMES ABOVE
	STATION		NO. OF			THE STREET, GOOD STREET, STREE	NTILES			MAX.	ARITH.	GEOM.	CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HOUR
SOUTH	12002	City Hall											
WEST	10005	444 Windsor Ave., Windsor	55	.001	.004	.005	.007	.010	.035	.090	.007	.004	NIL
	12005	7730 Riverside Dr. E. Windsor	55	.001	.002	.004	.008	.015	.028	.043	.006	.003	NIL
	12008	467 University Ave. W.											
		Windsor	318	.001	.002	.004	.006	.010	.015	.024	.005	.003	NIL

Table 25 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCEI 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
	12010	Tecumseh Sewage Stn.	Wan	Name of		250000			90.300	Laterage.			
	12013	Manning Rd., Windsor Filtration Plant, 3665 Wyan-	56 56	.001	001	002	003	005	.007	.009	002	.001	NIL
	12014	dotte St. E., Windsor Univ. Met. Stn. College Calif. St., Windsor	44	.004	.009	.012	.019	.030	.067	.089	.016	.011	NIL NIL
	12015	Sewage Plant Hwy 18 Prospect, Windsor	54	002	004	.007	.009	013	028	.059	.008	.005	NIL
	13003	Post Office 10 Center St., Chatham	41	.001	.001	.003	.004	008	013	.013	.003	.003	NIL
	13023	RR #1, Behind The Barn, Blenheim	10	.005	006	.006	.008	009	010	.010	.007	.007	NIL
	13024	Jackson Farm Blenheim	11	.005	007	.007	.008	010	.011	.011	.008	.007	NIL
	13025	RR #2, Behind The Barn, Merlin	11	.005	006	006	.007	009	009	.009	006	006	NIL
	14001	General Hospital 220 Mitton St., Sarnia	53	.001	.001	.002	.002	.006	.010	.011	.003	.001	NIL
	14016	Opposite Lambton GS Hwy. 40, Courtright	328	001	.001	.001	.002	004	011	116	002	.001	NIL
	14030	RR #1, West of The House, Corunna	55	.001	.002	.003	.005	.006	.010	.010	.003	.002	NIL
	14031	RR #1, West Side of Barn, Mooretown	56	.001	.002	.003	.006	009	010	.010	.004	.002	NIL
	14064	Centennial Park Front St. CN Tracks, Sarnia	49	.001	.001	.002	.003	.005	009	.009	.002	.001	NIL
	15001	Western Fair Grounds King/Rectory, London	52	.001	.001	.002	003	005	.005	.006	.002	.001	NIL
WEST	22071	Experimental Farm	120	12-20-2	757271	12/27		222	7252	10720021	1202	121210	N2KSWM
CENTRAL	26029	Simcoe Edna/Frederick St.	54	.001	.001	.001	.002	005	.007	.008	.002	.001	NIL
	27008	Kitchener 71 King St.	54	.001	001	.004	.004	.006	.010	.011	.003	.002	NIL
	28024	St. Catharines 95 Inkerman St.	56	.001	.001	.002	.004	.006	014	.020	.003	.002	NIL
	29001	Guelph Hughson/Hunter Hamilton	56 55	.001	001	.002	.003	007	032	.033	004	.001	NIL
	29008	North Park Hamilton	334	.001	.002	.003	.003	.023	.042	.039	.009	.004	NIL NIL
	29011	Burlington Leeds Hamilton	57	.005	.012	.018	.023	037	077	078	.021	.014	NIL
	29012	Burlington Wellington Hamilton	58	.003	.007	.008	.013	.025	.050	051	.012	.008	NIL
	29017	Chatham/Frid Hamilton	59	.001	.003	.006	.010	025	.039	.047	.010	.005	NIL
	29025	Barton/Wentworth Hamilton	335	.002	.005	.008	.015	032	069	.093	014	.008	NIL
	29067	450 Hughson St. N. Hamilton	53	.001	.004	.009	.011	.023	.068	.088	.011	.006	NIL
	29085	Upper Wellington/Inverness Hamilton	45	.001	.002	.004	007	.019	.030	.033	.007	.003	NIL
CENTRAL	31018	35 Bathurst St. Toronto	150	.001	.005	.007	.010	015	020	.021	.008	.005	NIL
	31058	Mosley Leslie Sts. Toronto	341	.001	.003	.006	.010	020	.049	.080	.009	.004	NIL
	31064	17 Berkshire Ave. Toronto	251	.002	.005	.009	.014	.029	.056	.127	.012	.007	NIL
	31065	633 Eastern Ave. Toronto	34	.003	.008	.014	.020	046	143	.210	.024	.013	NIL
	31104	26 Breadalbane Toronto	337	.001	.002	.003	.006	010	.018	.030	.004	.002	NIL
	33003 34002	Lawrence/Kennedy Scarborough Science Centre	72	.001	.001	.002	.003	.009	.013	.014	.003	.001	NIL
	34002	770 Don Mills Rd., North York Bathurst/Wilson	111	.001	.001	.001	.003	007	.011	.020	.002	.001	NIL
	35003	North York Elmcrest Rd.	75	.001	.001	.003	.004	.013	.020	.023	.005	.002	NIL
	35033	Etobicoke Evans Arnold Ave.	111	.001	.001	.001	.004	.010	.020	.020	.003	.001	NIL
	35037	Etobicoke 3050 Lakeshore Blvd. W.	53	.001	.002	.003	.005	.009	.013	.015	.004	.002	NIL
	45001	Etobicoke Pickering Fire Hall	322	.002	.005	.008	.012	.024	.175	429	.015	.007	NIL
	45011	Pickering Public Library	268	.001	.001	.002	.003	.007	.016	.017	.003	.001	NIL
		Oshawa	115	.001	.001	.002	.004	.007	.010	.013	.003	.002	NIL

Table 25 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
	46025	Mississauga Public Library											
		Mississauga	52	.001	.002	.004	.007	.011	.015	.017	.005	.003	NIL
	46033	Bramalea Fire Hall											
		Bramalea	52	.001	.001	.002	.007	012	022	.025	.004	.002	NIL
	47042	Armoury Bldg., Park											(500,00)
		Parkside St., Barrie	94	.001	.001	.001	.003	.004	.006	.006	.002	.001	NIL
	59006	City Hall											
		500 George St., Peterborough	91	.001	.001	.001	.003	006	021	027	002	.001	NIL
SOUTH	51001	McDonald Gdns., Rideau											
EAST		Wurtemburg St., Ottawa	55	.001	.001	.001	.001	.003	.006	.006	.001	.001	NIL
	52017	106 Clarence St.											
		Kingston	10	.001	.001	.001	.001	.001	.001	.001	.000	.000	NIL
	54013	Post Office Bldg.											
		Belleville	46	001	.001	.002	.004	.005	.007	.009	.002	.001	NIL
	56051	Memorial Park											
		York Third St., Cornwall	58	.001	001	.001	.003	004	007	.009	.002	.001	NIL
NORTH	63005	Hospital, Archibald											
WEST		Arthur St., Thunder Bay	58	.001	.002	.004	.005	.008	.010	.010	.004	.003	NIL
	63022	Hospital, 35 Algoma St. N.											
		Thunder Bay	48	.001	.001	.001	.002	.003	.007	.007	.001	.001	NIL
NORTH	71022	Sault College											
EAST		Queens St., Sault Ste. Marie	49	.001	.003	006	.009	.022	.035	.037	.009	.005	NIL
	71042	Bonney St. Pump House											
		Sault Ste. Marie	40	.002	006	.009	.012	023	039	.039	.012	.008	NIL
	75010	OPP Station											
		North Bay	45	.001	002	.003	.004	.006	.018	.022	.004	.003	NIL
	77016	Ash St. Water Tank											
		Sudbury	56	001	.002	.002	.004	.005	.017	.022	.003	.002	NIL

Table 26 Summary of Data: Zinc in Total Suspended Particulate Matter (all values in micrograms per cubic meter)
No Ontario Criterion

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	
SOUTH	12002	City Hall											
WEST	12005	444 Windsor Ave., Windsor 7730 Riverside Dr. E.	54	0.1	0.1	0.1	0.2	0.4	0.7	0.8	0.2	0.1	
	12005	Windsor	30	0.1	0.1	0.1	0.1	0.2	0.6	0.6	0.1	0.1	
	12008	467 University Ave. W.	-	951			9	0.2	0.0	0.0	0.1	0.1	
		Windsor	190	0.1	0.1	0.1	0.2	0.5	0.7	1.0	0.2	0.1	
	12010	Tecumseh Sewage Stn.											
		Manning Rd., Windsor	47	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	0.0	
	12013	Filtration Plant, 3665 Wyan-											
	1.0	dotte St. E., Windsor	47	0.1	0.1	0.2	0.4	0.6	1.0	1.0	0.3	0.1	
	12014	Univ. Met. Stn.	22	200	2.75	8 20	8.9						
	10015	College Calif. St., Windsor	39	0.1	0.4	0.5	0.6	0.7	0.9	1.0	0.5	0.4	
	12015	Sewage Plant											
	13003	Hwy. 18/Prospect, Windsor Post Office	41	0.1	0.1	0.4	0.5	0.6	1.2	1.5	0.3	0.2	
	13003	10 Center St., Chatham	25	0.1	0.1	0.2	0.2	0.4	0.8	1.0	0.2	0.1	
	13023	RR #1, Behind	23	0.1	0.1	0.2	0.2	0.4	0.0	1.0	0.2	0.1	
	10020	The Barn, Blenheim	10	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.5	0.5	
	13024	Jackson Farm		0.4	0.4	0.4	0.5	0.0	0.0	0.0	0.5	0.5	
		Blenheim	11	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	
	13025	RR #2, Behind											
		The Barn, Merlin	10	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	
	14001	General Hospital											
		220 Mitton St., Sarnia	34	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.1	0.1	
	14016	Opposite Lambton GS											
		Hwy. 40, Courtright	176	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.0	
	14030	RR #1, West of											
		The House, Corunna	30	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	
	14031	RR #1, West Side	20		0.6		0.0					4.1	
	14064	of Barn, Mooretown	28	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.2	0.1	
	14064	Centennial Park Front St. CN Tracks, Sarnia	11	0.1	0.1	0.1	0.2	0.4	0.5	0.5	0.2	0.1	
	15001	Western Fair Grounds	10.0	0.1	0.1	0.1	0.2	0.4	0.5	0.5	0.2	0.1	
	13001	King Rectory, London	26	0.1	0.1	0.1	0.1	0.1	0.9	1.2	0.1	0.1	
		g , locioly, condon	20	0.1	0.1	0.1	0,1	0.1	0.5	1.2	0.1	0.1	

Table 26 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
WEST	22071	Experimental Farm	24	0.4			0.1	0.1	0.	0.1	0.0	2.2
CENTRAL	26029	Simcoe Trailer, Edna	31	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
	27008	Frederick St., Kitchener 71 King St.	22	0.1	0.1	0.1	0.5	0.6	0.9	0.9	0.3	0.2
	28024	St. Catharines 95 Inkerman St.	27	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
		Guelph North Park	23	0.1	0.1	0.1	0.1	0.7	0.9	0.9	0.2	0.1
	29008	Hamilton	75	0.1	0.1	0.1	0.2	0.4	0.6	0.7	0.2	0.1
	29011	Burlington/Leeds Hamilton	14	0.1	0.3	0.4	0.5	0.6	1.5	1.7	0.4	0.3
	29012	Burlington/Wellington Hamilton	11	0.4	0.5	0.5	0.6	0.8	0.8	0.8	0.6	0.5
	29025	Barton/Wentworth Hamilton	69	0.1	0.1	0.2	0.4	0.7	0.9	0.9	0.3	0.2
	29067	450 Hughson St. N.	11	0.1	0.1	0.2	0.2	0.3	0.6	0.6	0.2	0.1
	29085	Hamilton Upper Wellington Inverness										
CENTRAL	31058	Hamilton Mosley/Leslie Sts.	18	0.1	0.1	0.1	0.3	0.5	0.5	0.5	0.2	0.1
	31064	Toronto 17 Berkshire Ave.	89	0.1	0.1	0.1	0.1	0.3	0.7	0.8	0.1	0.0
	31104	Toronto 26 Breadalbane	87	0.1	0.1	0.2	0.3	0.5	0.9	1.1	0.2	0.1
		Toronto	65	0.1	0.1	0.2	0.3	0.4	0.7	0.8	0.2	0.1
	33003	Lawrence Kennedy Scarborough	35	0.1	0.1	0.1	0.1	0.2	0.4	0.5	0.1	0.1
	34002	Science Centre 770 Don Mills Rd., North York	32	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.1	0.1
	34007	Bathurst/Wilson North York	53	0.1	0.1	0.2	0.2	0.5	1.0	1.0	0.2	0.1
	35003	Elmcrest Rd.	23	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.1	0.1
	35033	Etobicoke Evans Arnold Ave.										
	35037	Etobicoke 3050 Lakeshore Blvd. W.	39	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.2	0.1
	45001	Etobicoke Pickering Fire Hall	90	0.1	0.1	0.1	0.1	0.3	0.9	1.0	0.1	0.1
	45011	Pickering Public Library	125	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.1	0.1
	46025	Oshawa Mississauga Public Library	36	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.0	0.0
		Mississauga	47	0.1	0.1	0.2	0.2	0.5	0.7	0.7	0.2	0.2
	46033	Bramalea Fire Hall Bramalea	37	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.1	0.1
	47042	Armoury Bldg., Park/ Parkside St., Barrie	23	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
	59006	City Hall 500 George St., Peterborough	52	0.1	0.1	0.1	0.1	0.3	0.3	0.4	0.1	0.1
SOUTH	51001	McDonald Gdns Rideau	***	2550N	væ801	ುವೆಸೆಯ	1.00 mil.		. 5.00	(7.5%)	77351.0	8256798
EAST		Wurtemburg St., Ottawa	22	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.1	0.1
	54013	Post Office Bldg. Belleville	33	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.1	0.0
ORTH	63005	Hospital, Archibald										
VEST	63022	Arthur St., Thunder Bay Hospital, 35 Algoma St. N.	57	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.3	0.3
	00022	Thunder Bay	43	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2
IORTH	71022	Sault College	40	0.4	0.1	0.4	0.0	0.2	0.0	0.0	0.1	0.1
AST	71042	Queens St., Sault Ste. Marie Bonney St. Pump House	45	0.1	0.1	0.1	0.2	0.3	0.6	0.6	0.1	0.1
	71049	Sault Ste. Marie Land Reg. Office	35	0.1	0.1	0.1	0.2	0.3	0.7	0.8	0.2	0.1
	77016	Queen St., Sault Ste. Marie Ash St. Water Tank	29	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0
	77070	Sudbury Nickel St. Pump House	56	0.1	0.1	0.1	0.2	0.5	0.7	0.8	0.2	0.1
		Copper Cliff	45	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
	77076	Post Office Falconbridge	43	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0

Table 27 Summary of Data: Manganese in Total Suspended Particulate Matter (all values in micrograms per cubic meter)
Ontario Criterion – 24 hour average: 50.0 ug/m³

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
SOUTH	12002	City Hall											
WEST		444 Windsor Ave., Windsor	55	020	030	.048	056	073	.105	.108	.46	.40	NIL
	12005	7730 Riverside Dr. E. Windsor	55	.006	.016	.023	.030	.046	.089	.097	.025	.015	NIL
	12008	467 University Ave. W. Windsor	320	014	.024	.034	.049	.080	.144	.229	.042	.033	NIL
	12010	Tecumseh Sewage Stn.											
	12013	Manning Rd., Windsor Filtration Plant, 3665 Wyan-	56	004	.009	.015	020	.031	.084	.091	.018	011	NIL
	12014	dotte St. E., Windsor Univ. Met. Stn.	56	.020	.040	.074	.131	409	.875	.919	.148	.077	NIL
		College Calif. St., Windsor	44	.022	.037	.056	.086	.098	.175	.207	.060	.046	NIL
	12015	Sewage Plant Hwy. 18 Prospect, Windsor	52	011	030	041	056	083	134	150	.047	030	NIL
	13003	Post Office				016							
	13023	10 Center St., Chatham RR #1, Behind	44	008	.012	.016	.022	.030	.044	.044	.018	014	NIL
	13024	The Barn, Blenheim Jackson Farm	10	.004	.011	.013	.014	.021	.032	.034	.014	.011	NIL
		Blenheim	11	.006	009	.012	017	036	037	037	016	.011	NIL
	13025	RR #2, Behind The Barn, Merlin	10	.005	.007	.012	.016	.020	.021	.021	.012	.011	NIL
	14001	General Hospital 220 Mitton St., Sarnia	57	.006	.011	.016	.022	.044	.097	101	.022	.016	NIL
	14016	Opposite Lambton GS											
	14030	Hwy. 40, Courtright RR #1, West of	339	004	.007	.011	016	026	.066	.103	.014	.010	NIL
	14031	The House, Corunna RR #1, West Side	57	.003	.007	.009	.016	.032	.052	.065	014	.008	NIL
		of Barn, Mooretown	57	.002	.006	.009	.014	.029	.043	.051	.012	.007	NIL
	14064	Centennial Park Front St. CN Tracks, Sarnia	56	.004	.010	018	.028	.070	192	.210	.032	.015	NIL
	15001	Western Fair Grounds											
		King Rectory, London	54	.008	.015	.021	.028	.052	.064	.066	.024	.019	NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	56	001	.007	010	020	027	066	091	.014	.006	NIL
	26029	Trailer, Edna											
	27008	Frederick St., Kitchener 71 King St.	54	.009	.018	.029	.041	.061	.093	.094	.032	.024	NIL
	28024	St. Catharines 95 Inkerman St.	57	.010	.017	.025	.038	.061	.105	.110	.033	.024	NIL
		Guelph	56	.003	016	.024	036	078	.219	330	038	.017	NIL
	29001	Hughson Hunter Hamilton	55	.019	.033	.075	.149	.424	.620	624	.149	.077	NIL
	29008	North Park Hamilton	337	.044	.089	.157	255	456	.675	.891	.209	.147	NIL
	29011	Burlington Leeds											
	29012	Hamilton Burlington Wellington	57	031	.168	289	.408	692	1.422	1.535	.357	.206	NIL
	29017	Hamilton Chatham Frid	59	.034	.065	.102	.179	.333	.518	.551	.153	108	NIL
		Hamilton	59	.023	.047	.084	156	.406	.714	.756	.154	.089	NIL
	29025	Barton/Wentworth Hamilton	336	040	.072	110	233	550	980	1.225	.215	134	NIL
	29067	450 Hughson St. N. Hamilton		.017	.047								
	29085	Upper Wellington Inverness	53			.088	152	302	.669	.840	.135	.081	NIL
CENTRAL	31018	Hamilton 35 Bathurst St.	49	.017	.032	.047	.146	.330	.533	.590	.120	.062	NIL
OLIVITAL	a munimination	Toronto	150	.027	043	052	075	118	153	194	064	055	NIL
	31058	Mosley Leslie Sts. Toronto	341	.012	.025	.036	.051	.085	.153	262	.044	.031	NIL
	31064	17 Berkshire Ave. Toronto	252	.014	.028	038	.052	.088	154	.179	.045	.032	NIL
	31065	633 Eastern Ave											
	31104	Toronto 26 Breadalbane	34	011	022	029	044	058	097	101	.034	026	NIL
		Toronto	347	010	.020	.030	.038	067	125	.293	.036	024	NIL
	31120	Junction Triangle Perth Ave., Toronto	113	.012	.021	.029	.047	.078	.180	210	.041	.029	NIL
	33003	Lawrence Kennedy Scarborough	77	006	017	.021	.029	042	099	.112	024	017	NIL
	34002	Science Centre											
	34007	770 Don Mills Rd., North York Bathurst Wilson	115	.008	.011	.019	024	.046	.131	.150	.024	.015	NIL
		North York Elmcrest Rd	79	.012	.026	.037	.047	.069	.126	.151	.040	.028	NIL
	35003	Etobicoke	116	001	.017	024	038	070	113	148	.032	017	NIL

Table 27 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
***	35033	Evans Arnold Ave.		100101001	187987000	fasierwy ()	egograpo.	VOLUM	(400/42)	VHQD00		Lauren comm	96200311
	25027	Etobicoke 3050 Lakeshore Blvd, W.	78	.013	.022	.029	.042	.064	.098	.120	.035	.028	NIL
	35037	Etobicoke	328	.009	.019	.029	.041	.063	.115	.681	.035	.024	NIL
	45001	Pickering Fire Hall	320	.003	.019	.023	.041	.003	110	.001	.033	1024	INIL
	10001	Pickering	279	.008	016	.021	030	045	.066	.081	024	019	NIL
	45011	Public Library											
		Oshawa	115	.006	.015	.023	.043	.081	.126	160	.035	.020	NIL
	46025	Mississauga Public Library											
	70000	Mississauga	54	.010	.027	.038	.049	.075	.135	.170	.042	.029	NIL
	46033	Bramalea Fire Hall Bramalea	52	.001	010	.025	.032	.075	122	139	031	044	NIL
	47042	Armoury Bidg., Park	52	.001	.010	.025	.032	075	.122	139	.031	011	NIL
	47042	Parkside St., Barrie	98	.002	.008	.013	.019	.036	.056	.101	.016	.009	NIL
	59006	City Hall	50	.002	000	.0.10	.010		.000		.0.10	-000	1.835
		500 George St., Peterborough	109	.007	.011	.018	.033	.040	.104	.115	.023	.018	NIL
SOUTH	51001	McDonald Gdns., Rideau											
EAST		Wurtemburg St., Ottawa	55	.001	009	014	018	025	051	061	014	.008	NIL
	52017	106 Clarence St.	200	02/120421	121012	1270702	929289	920000	9209320	427.0300	92001420	80.00	10/1000
	5 1010	Kingston	10	.007	.010	.016	.021	.031	.042	.043	.018	.014	NIL
	54013	Post Office Bldg. Belleville	48	.006	.010	016	.021	.036	.073	.080	.020	.014	NIL
	56051	Memorial Park	-10	.000	.010	.0.10	.UZ1	.030	0/3	.000	.020	.014	INIL
	30031	York Third St., Cornwall	58	.005	.010	.019	.027	.069	_123	.159	.028	.015	NIL
NORTH	63005	Hospital, Archibald											
WEST		Arthur St., Thunder Bay	58	.001	.012	.015	.025	.038	.079	.092	.021	.010	NIL
	63022	Hospital, 35 Algoma St. N.											
		Thunder Bay	59	.003	.011	017	.025	.055	069	.073	.023	.013	NIL
NORTH	71022	Sault College											
EAST		Queens St., Sault Ste. Marie	50	.050	.100	.206	.357	.600	1.353	1.353	301	.184	NIL
	71042	Bonney St. Pump House	122	2000	747474	22.20	14070740	120000	0.102207	10702000		202	2322
	71010	Sault Ste. Marie	49	.092	205	309	510	.749	2.473	2.707	.470	.310	NIL
	71049	Land Reg. Office Queen St., Sault Ste. Marie	45	.001	.007	.026	.035	.070	.138	.142	030	.010	NIL
	75010	OPP Station	40	.001	-007	.020	Jou	070	.130	1146	Vau	.010	INIE
	7.5010	North Bay	45	.007	.011	.016	.023	.030	.052	.069	018	.015	NIL
	77016	Ash St. Water Tank	7.190		SEROW!	HEREGICK #		==500A			77730574	20005	
		Sudbury	57	.002	.005	.009	.012	.019	.050	109	.011	.006	NIL

Table 28 Summary of Data: Vanadium in Total Suspended Particulate Matter (all values in micrograms per cubic meter)
Ontario Criterion – 24 hour average: 2.0 ug/m³

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCE 50	NTILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
COUTU	10000	Cit. Hall											
SOUTH	12002	City Hall 444 Windsor Ave., Windsor	55	.002	004	.005	.007	.011	.019	024	006	005	NIL
WEST	12005	7730 Riverside Dr. E.	55	.002	.004	.005	.007	.011	.019	024	.006	.005	INIL
	12005	Windsor	54	.001	.002	.003	.006	.010	014	.016	.004	.002	NIL
	12008	467 University Ave. W.	34	.001	.002	.003	.000	.010	-014	.010	.004	.002	IVIL
	12000	Windsor	319	.002	.003	.004	.006	.011	.020	.029	.005	.004	NIL
	12010	Tecumseh Sewage Stn.	0.0	.002	.000	.004	.000	.0.1	-020	.025	.005	.004	1341
	12010	Manning Rd., Windsor	57	.001	.001	.003	.004	.010	.023	046	.004	002	NIL
	12013	Filtration Plant, 3665 Wyan-								10.40	0.000.000.0		
		dotte St. E., Windsor	56	.001	.003	.005	.007	.010	.027	.040	.006	.004	NIL
	12014	Univ. Met. Stn.											
		College Calif. St., Windsor	44	.001	_004	.006	.007	.011	.030	.030	.007	.004	NIL
	12015	Sewage Plant											
		Hwy. 18 Prospect, Windsor	53	.001	.002	.004	.006	.010	070	128	008	003	NIL
	13003	Post Office											
		10 Center St., Chatham	44	.001	.002	.003	-003	.005	.009	.011	.003	002	NIL
	14001	General Hospital											
		220 Mitton St., Sarnia	58	.002	.005	.009	.014	.041	.086	.088	.016	.008	NIL
	14016	Opposite Lambton GS											
		Hwy. 40, Courtright	338	.001	.003	005	008	023	108	.138	011	.005	NIL
	14030	RR #1, West of			2.2/2/	202029	20202	2772	27. 0				
	0000000	The House, Corunna	58	.001	.002	.003	.006	.010	.014	.019	.005	.003	NIL
	14031	RR #1, West Side		W12077		-		1100000000	1000000	10000000	2020	1202	1878
		of Barn, Mooretown	58	-001	.002	.003	.004	.010	.020	.024	.004	.002	NIL

Table 28 - Continued . . .

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	10	30	PERCENT 50	TILES 70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HOUR
	14064	Centennial Park	r.e.	001	005	011	000	0.15	007	100	010	200	N.III
	15001	Front St. CN Tracks, Sarnia Western Fair Grounds King Rectory, London	56 56	.001	.005		.020	.010	.097	.013	.019	.009	NIL NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	56	.001	.001	002	003	005	012	017	002	.001	NIL
A THE STATE SALE AND PARTY OF THE STATE OF	26029	Trailer, Edna Frederick St., Kitchener	54	.001	.002		.005	.007	014	.016	.004	.003	NIL
	27008	71 King St.											
	28024	St. Catharines 95 Inkerman St.	53	.001	.002		.005	.009	.016	.017	.004	.003	NIL
	29001	Guelph Hughson Hunter	55	001	.001	001	003	.005	012	021	.002	.001	NIL
	29008	Hamilton North Park	55	.001	003	.007	.010	022	032	.034	.009	.005	NIL
	29011	Hamilton Burlington Leeds	331	.002	.005	.007	010	.020	.032	.040	.009	.006	NIL
		Hamilton	57	003	005	008	014	027	048	053	012	008	NIL
	29012	Burlington Wellington Hamilton	59	.003	.005	.007	010	.017	.028	.036	.009	.006	NIL
	29017	Chatham Frid Hamilton	59	.003	.005	.009	015	030	.040	.043	.012	.008	NIL
	29025	Barton Wentworth Hamilton	326	003	.005	008	012	027	054	.082	.012	008	NIL
	29067	450 Hughson St. N. Hamilton	45	.002	.005		010	016	037	.040	.009	.007	NIL
	29085	Upper Wellington Inverness											
CENTRAL	31018	Hamilton 35 Bathurst St	49	.001	.003		.008	022	.032	.034	.007	.004	NIL
	31058	Toronto Mosley Leslie Sts.	150	003	.005	007	009	.013	.021	022	.008	005	NIL
	31064	Toronto 17 Berkshire Ave.	344	.001	.003	.006	.008	.013	.024	.031	.006	.003	NIL
	31065	Toronto 633 Eastern Ave	252	.001	.004	.006	.008	.013	.027	.082	.007	.004	NIL
		Toronto	34	004	005	007	012	.015	026	026	.009	007	NIL
	31104	26 Breadalbane Toronto	334	.001	.002	.004	006	.010	.027	043	.005	003	NIL
	33003	Lawrence Kennedy Scarborough	78	.001	.001	.002	003	.006	.011	.025	.003	.001	NIL
	34002	Science Centre 770 Don Mills Rd., North York	116	001	001	001	003	007	020	180	.004	001	NIL
	34007	Bathurst Wilson North York	78	.001	001		004	.010	015	025	.003	.001	NIL
	35003	Elmcrest Rd.											
	35033	Etobicoke Evans Arnold Ave.	116	.001	.002		.006	.010	.017	.033	.005	.002	NIL
	35037	Etobicoke 3050 Lakeshore Blvd. W.	69	001	.001	003	005	011	021	.023	004	.002	NIL
	45001	Etobicoke Pickering Fire Hall	335	.001	.002	.003	.005	.008	.016	.023	.004	.003	NIL
	45011	Pickering Public Library	281	.001	.001	.002	.004	.006	.013	.020	.003	001	NIL
		Oshawa	114	.001	.002	002	003	006	013	.022	.003	002	NIL
	46025	Mississauga Public Library Mississauga	54	.001	002	003	006	010	.021	.022	005	002	NIL
	46033	Bramalea Fire Hall Bramalea	44	.001	.001	.002	.003	.007	.010	.011	.003	.002	NIL
	47042	Armoury Bldg., Park Parkside St., Barrie	99	.001	.001	.001	.002	.004	.008	.009	.002	.001	NIL
	59006	City Hall 500 George St., Peterborough	114	.001	.001		.002	.004	.009	.011	.002	.001	NIL
SOUTH	51001	McDonald Gdns., Rideau											
EAST		Wurtemburg St. Ottawa	53	003	006	011	016	023	051	058	013	009	NIL
	52017	106 Clarence St. Kingston	10	.003	.005	.008	.009	.010	.013	.013	.007	.006	NIL
	54013	Post Office Bldg. Belleville	48	.001	.001	002	.002	.005	.008	.009	.002	.001	NIL
	56051	Memorial Park York Third St., Cornwall	58	004	010	.017	030	.053	063	.065	.022	.015	NIL
NORTH	63005	Hospital, Archibald											
WEST	63022	Arthur St., Thunder Bay Hospital, 35 Algoma St. N.	58	.001	.001	.002	.004	.008	.014	.018	.003	.002	NIL
	00022	Thunder Bay	43	001	002	.003	005	.012	.027	.028	.005	.003	NIL

Table 28 — Continued . . .

	STATION	13 1 <u>1</u> 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NO. OF	10020		PERCE		227	2/2/	MAX.	ARITH.	GEOM.	TIMES ABOVE CRITERION
REGION	NUMBER	LOCATION	SAMPLES	10	30	50	70	90	99	CONC.	MEAN	MEAN	24-HOUR
NORTH	71022	Sault College											
EAST	71022	Queens St., Sault Ste. Marie	46	.001	.002	.003	.005	.013	.017	.017	.005	.003	NIL
	71042	Bonney St. Pump House											
		Sault Ste. Marie	40	.001	.003	.006	.009	.016	.031	.032	.008	.005	NIL
	75010	OPP Station											
		North Bay	44	.001	001	002	.003	.006	.010	010	.003	.002	NIL
	77016	Ash St. Water Tank											
		Sudbury	56	.001	.001	.002	.003	.007	015	016	.003	002	NIL

Table 29	Summary of Data: Ontario's Air Pollution Index
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REGION	STATION NUMBER	LOCATION	TOTAL NO. OF HOURS	0-15	NUMBER 16-31	OF HOURS 32-49	50-99	≥100	MAXIMUM	NUMBER 0 ≥32	OF HOURS ≥50
SOUTH	12008	467 University Ave. W.									
VEST		Windsor	8353	7721	632	0	0	0	31	NIL	NIL.
	12016	College South St.	7050	7667	000		0	0	25	40	****
	1.100.1	Windsor Centennial Park	7858	7557	289	12	U	U	35	12	NIL
	14064	Front St. CN Tracks, Sarnia	8607	7747	860	0	0	0	27	NIL	NIL
WEST	27037	North Geneva St.									
CENTRAL		St. Catharines	8381	8188	193	0	0	0	31	NIL	NIL
	27049	Murray Buchanan Ave	The Martin Crain	1207012-2011	// miles	-					
	20025	Niagara Falls	8542	8493	49	0	0	0	19	NIL	NIL
	29025	Barton Wentworth	8564	5149	3212	203	0	0	39	203	NIL
		Hamilton	8364	5149	3212	203	U	U	39	203	INIL
CENTRAL	31104	26 Breadalbane									
	dialis il	Toronto	8512	7396	1054	49	13	0	54	62	13
NORTH	77016	Ash St. Water Tank									
EAST	77010	Sudbury	8574	8574	0	0	0	0	15	NIL	NIL
	77028	Government Edward St.									
		Coniston	8473	8405	48	20	0	0	39	20	NIL
	77075	Kennedy St.					240	(22)		A1144	*****
		New Sudbury	8586	8483	103	0	0	0	29	NIL	NIL

Table 30	Ontari	o's Air Pollutio	n Index				
Date Started:	TORON		MARCH 23, 1970)			
	HAMILT	(주)(1)	JUNE 15, 1970	FaiFil			
	SUDBU		JANUARY 16, 19				
	WINDS		MARCH 19, 197				
	HAPPY	VALLEY	MAY 13, 1971	(Closed	Jan. 1975)		
	WELLA	ND	JANUARY 1, 197	74 (Closed	Oct. 1978)		
	NIAGAF	RA FALLS	NOVEMBER 1,	974			
	CONIST	ON	FEBRUARY 18,	1975			
	NEW SI	JDBURY	MARCH 1, 1976				
	SARNIA	(DECEMBER 1, 1	977			
	ST. CAT	THARINES	SEPTEMBER 14	, 1979			
				ER OF	MAXIMUM	DATE OF	
	YEAR	CITY	≥32	≥ 50	INDEX	MAXIMUM	
	1970	TORONTO	17	2	56	Oct. 8	
		HAMILTON	2	1	56	Oct. 8	

Table 30 - Continued . . .

			NUMB OCCA		MAXIMUM	DATE OF
1	YEAR	CITY	≥32	≥50	INDEX	MAXIMUM
	1971	TORONTO	19	1	52	Apr. 13
	1371	HAMILTON	23	NIL	48	Oct. 21
		SUDBURY	26	3	87	Dec. 11
		WINDSOR	2	NIL	33	Nov. 10
		HAPPY VALLEY	20	7	64	Nov. 21
	1972	TORONTO	2	NIL	45	Feb. 13
		HAMILTON	6	NIL	41	Feb. 13
		SUDBURY	7	1	79	June 12
		WINDSOR	9	1	53	Jan. 29
		HAPPY VALLEY	20	11	139	Mar. 23
	1070	TORONTO	2	F.111	12	0-104
	1973	TORONTO	3	NIL	43	Oct. 24
		HAMILTON	2	NIL	34	Feb. 14
		SUDBURY	NIL	NIL	26	Mar. 14
		HAPPY VALLEY	19	10	94	Aug. 21
		WINDSOR	7	NIL	44	Feb. 19
	1974	TORONTO	3	1	50	Oct. 29
		HAMILTON	11	NIL	44	Oct. 29
		SUDBURY	1	NIL	32	July 13
		WINDSOR	2	NIL		
					41	Jan. 7
		HAPPY VALLEY	24	13	116	Apr. 23
		NIAGARA FALLS	NIL	NIL	20	Nov. 9
		WELLAND	46	15	77	Oct. 6
	1975	TORONTO	2	1	62	Nov. 20
		HAMILTON	10	NIL	38	Oct. 24
		SUDBURY	NIL	NIL	30	Feb. 1
		WINDSOR	NIL	NIL	28	Feb. 11
		WELLAND	NIL	NIL	23	Jan. 24
		NIAGARA FALLS				
		CONISTON	NIL NIL	NIL NIL	21 30	Nov. 24 May 13
						0.010.0000
	1976	TORONTO	1	NIL	33	Oct. 3
		HAMILTON	8	NIL	41	Dec. 16
		SUDBURY	NIL	NIL	28	June 6
		WINDSOR	1	NIL	34	Dec. 16
		WELLAND	NIL	NIL	24	Dec. 16
		NIAGARA FALLS	NIL	NIL	25	Feb. 21
		CONISTON	NIL	NIL	29	Sept. 16
		NEW SUDBURY	NIL	NIL	29	Apr. 2.3 & June 20
	1977	TORONTO	X	NIII	26	lan 15
	1977		4	NIL	36	Jan. 15
		HAMILTON	10	NIL	44	Mar. 12
		SUDBURY	NIL	NIL	24	June 11
		WINDSOR (12008)	1	NIL	33	Apr. 19
		WELLAND	NIL	NIL	22	Jan. 24,25
		CONISTON	NIL	NIL	25	Apr. 25
		WINDSOR (12016)	NIL	NIL	29	Apr. 19
		NEW SUDBURY	1	NIL	39	June 11
		SARNIA	NIL	NIL	15	Dec. 13
		NIAGARA FALLS	NIL	NIL	28	Feb. 21
	1978	TORONTO	2	KIII	45	Nov. 5
	1970	HAMILTON	2 7	NIL NIL		Nov. 5 Nov. 4
					43	
		SUDBURY	NIL	NIL	31	Jan. 22
		WINDSOR (12008)	1	NIL	33	Apr. 19
		WELLAND	NIL	NIL	24	Mar. 15
		NIAGARA FALLS	NIL	NIL	23	Nov. 4, Mar. 11
		CONISTON	3	NIL	34	Feb. 7
		WINDSOR (12016)	NIL	NIL	28	Feb. 18
		VIII (12010)	1015			
		NEW SUDBURY	1	NIL	42	Feb. 2

Table 30 - Continued . . .

				ER OF SIONS	MAXIMUM	DATE OF
Y	/EAR	CITY	≥ 32	≥ 50	INDEX	MAXIMUM
	1979	TORONTO	2	NIL	35	Oct. 18
		HAMILTON	23	1	55	Dec. 22
		SUDBURY	NIL	NIL	18	July 7
		WINDSOR (12008)	NIL	NIL	31	Feb. 20
		NIAGARA FALLS	NIL	NIL	27	Feb. 21
		CONISTON	NIL	NIL	31	Feb. 14
		NEW SUDBURY	NIL	NIL	28	Feb. 14
		SARNIA	2	NIL	43	Feb. 20
		ST. CATHARINES	NIL	NIL	29	Nov. 6
		WINDSOR (12016)	NIL	NIL	27	Feb. 21
	1980	TORONTO	NIL	NIL	31	Dec. 8
		HAMILTON	5	NIL	40	Oct. 16
		SUDBURY	NIL	NIL	23	Oct. 16
		WINDSOR (12008)	NIL	NIL	25	Feb. 8,9
		WINDSOR (12016)	NIL	NIL	25	Dec. 29
		NIAGARA FALLS	NIL	NIL	18	May 24
		CONISTON	NIL	NIL	30	Feb. 10, Mar. 9
		NEW SUDBURY	NIL	NIL	24	July 3, Oct. 16
		SARNIA	1	NIL	39	Mar 20
		ST. CATHARINES	NIL	NIL	28	Feb. 20
	1981	TORONTO	3	NIL	43	Nov. 14
		HAMILTON	8	NIL	38	Nov. 15
		SUDBURY	NIL	NIL	21	Jan. 31
		WINDSOR (12008)	1	NIL	42	Nov. 17
		WINDSOR (12016)	NIL	NIL	31	Nov. 17
		NIAGARA FALLS	NIL	NIL	25	Jan. 14
		CONISTON	NIL	NIL	20	Nov. 25
		NEW SUDBURY	NIL	NIL	22	Jan. 28-29
		SARNIA	1	NIL	34	Feb. 16
		ST. CATHARINES	NIL	NIL	27	Jan. 14-15
	1982	TORONTO	3	2	54	Oct. 27
		HAMILTON	12	NIL	39	Dec. 2
		SUDBURY	NIL	NIL	15	Feb. 3
		WINDSOR (12008)	NIL	NIL	31	Oct. 26-27
		WINDSOR (12016)	1	NIL	35	Oct. 27
		NIAGARA FALLS	NIL	NIL	19	Jan. 19
		CONISTON	1	NIL	39	Feb. 5
		NEW SUDBURY	NIL	NIL	29	Feb. 5
		SARNIA	NIL	NIL	27	Mar. 11, Nov. 7-8
		ST. CATHARINES	NIL	NIL	31	Nov. 18

Table 31 Summary of Data: Wind Speed (all values in Kilometres per hour)

DEGIGN	STATION	LOCATION	1 5 1 5 1	HEIGHT	NUMBER OF	10			ENTILE				ARITH- METIC
REGION	NUMBER	LOCATION	LEVEL	METRES	HOURS	10	30	50	70	90	99	MAXIMUM	MEAN
SOUTH WEST	12001	1.1.km NNE Keith G.S Windsor	1	18	7879	2.5	6.7	10.4	14.4	21.4	33.4	53	11.8
			3	80	7465	6.9	13.1	17.7	22.9	31.1	50.1	73	19.3
	13002	Chatham Sewage Plant Chatham	1	8	5982	0.3	5.9	10.0	14.3	22.9	46.4	62	11.8
	13021	MOE Pumping Stat. Middle Road, Merlin	1	9	8080	0.0	4.9	8.9	13.5	21.4	36.5	52	10.8
	14016	Opposite Lambton G.S. Hwy. 40, Courtright	1	10	8492	4.0	8.9	12.9	17.8	25.9	41.2	57	14.8
			2	30	8489	6.8	12.3	16.6	21.7	30.5	47.4	71	18.5

Table 31 — Continued . . .

			-	HEIGHT	NUMBER								ARITH-
REGION	STATION NUMBER	LOCATION	LEVEL	IN METRES	OF HOURS	10	30	PERCE 50	70	90	99	MAXIMUM	METIC MEAN
SOUTH WEST	14016	Opposite Lambton G.S. Hwy. 40, Courtright	3	91	8457	10.1	17.6	23.1	28.5	37.5	58.5	76	24.3
	14062	242 Indian Rd. S. Sarnia	1	9	8581	0.0	3.7	6.4	10.1	15.9	26.6	44	8.1
	17006	St. Anthony's SS Hwy. No. 2, Beachville	1	10	8638	0.0	3.5	7.7	12.3	20.4	32.8	55	9.5
	18013	Bruce Nuclear Site Tiverton	1	10	6807	4.4	8.5	12.7	18.7	28.7	43.6	66	15.4
			2	30	8123	5.4	10.6	15.6	22.5	33.3	50.3	73	18.4
			3	100	8096	7.2	14.2	20.6	28.3	39.3	57.1	74	22.8
WEST	27011	Hydro SS		1521	37.7.7.	4 50	2000) 	(77.55)	10000	######################################	12.22	
CENTRAL	27011	Hwy. 58, Allanburg	1	10	8466	1.5	4.3	7.2	11.4	19.3	32.9	55	9.6
	29026	Brampton Woodward	2	37	8466	6.9	12.5	17.2	23.2	34.8	55.5	82	19.8
	23020	Hamilton	1	10	8198	3.4	8.0	12.0	16.7	24.6	37.9	60	13.8
			2	61	8319	5.2	12.0	17.9	24.7	35.8	53.4	74	20.1
CENTRAL	31045	Bruce PS	0	21	7450		<i>5</i> 2	8.0	10.8	10.2	05.6	44	0.0
	31025	Larchmount Ave Toronto Island Airport	2	21	7450	1.2	5.3	8.0	10.8	16.3	25.6	44	9.0
	31120	Toronto Junction Triangle	1	10	8453	5.3	10.3	16.0	21.2	32.4	53.6	78	17.8
	33003	Perth Ave., Toronto Lawrence Kennedy	1	18	1236	2.5	6.2	8.8	11.8	16.9	27.5	38	9.9
		Scarborough	1	12	8553	2.6	6.7	10.1	14.0	20.8	32.3	44	11.6
	35033	Evans Arnold Ave.	2	76	8519	8.3	15.2	21.0	27.5	38.6	57.1	81	23.0
		Etobicoke	10	10	7712	2.5	5.1	7.8	11.3	17.4	26.9	43	9.5
			2	30	8267	4.4	8.7	12.4	17.0	25.7	40.0	58	14.5
	44015	Bronte Rd. Woburn Cres.	3	91	8398	6.7	12.4	17.4	22.7	32.6	49.4	71	19.2
	45025	Oakville Ritson Rd. Olive Ave	1	10	8131	0.0	2.3	5.1	9.0	15.7	27.0	40	7.2
	48002	Oshawa Trailer, MTC Yard #9	1	10	8055	0.9	3.7	6.5	9.8	16.5	28.2	39	8.2
	58031	Hwy. 47, Stouffville Filtration Plant	1	10	6842	1.0	5.3	9.1	13.7	22.0	37.6	70	11.1
		Marsh St., Port Hope	1	10	7750	0.0	3.9	6.6	10.6	19.4	41.6	80	9.3
SOUTH EAST	56065	861 West Second St. Cornwall	1	9	8466	1.1	5.6	9.3	13.5	21.0	33.3	53	10.9
NORTH WEST	63084	Recreation Centre Red Rock	1	12	5669	0.0	3.7	8.3	13.0	19.8	31.0	47	9.7
	63090	St. Martin School Terrace Bay	1	12	1250	1.9	5.4	8.3	12.8	18.5	25.5	32	10.0
NORTH	77025	CKNC-TV, 699 Frood Rd.			1500		57	2.2		212	15315		
EAST		Sudbury	1	10	8166	5.2	10.3	14.2	19.1	27.3	40.9	56	16.0
			3	116	6816	5.4	11.9	16.9	22.4	31.7	47.9	64	18.5

Table 32 Summary of Data: Wind Direction – Wind Rose

BEOLON	STATION	LOCATION	. = . = .	HEIGHT	NUMBER OF		PERCEN							
REGION	NUMBER	LOCATION	LEVEL	METRES	HOURS	N	NE	E	SE	S	SW	W	NW	CALM
SOUTH	12001	1.1 km NNE Keith G.S.		graw)			-			0.4020	107 E87 GES		7001.2	200000
WEST		Windsor	1	18	7853	8.3	6.6	5.6	6.2	12.9	13.7	10.7	14.5	21.4
			3	80	7380	7.5	10.2	9.0	8.6	15.9	15.3	14.7	12.5	6.3
	13002	Chatham Sewage Plant												
		Chatham	1	8	5784	10.4	3.9	8.8	9.0	10.0	10.5	9.7	10.3	27.3
	13021	MOE Pumping Stn. Middle Road, Merlin	ĵ	9	8019	9.6	3.9	5.6	7.5	9.4	14.0	12.1	7.6	30.6

Table 32 — Continued . . .

DECION	STATION NUMBER	LOCATION	ı eve:	HEIGHT IN	NUMBER OF		PERCEN							041.55
REGION	NUMBER	LOCATION	LEVEL	METRES	HOURS	N	NE	E	SE	S	SW	W	NW	CALM
SOUTH WEST	14016	Opposite Lambton G.S. Hwy. 40, Courtright	1	10	8492	10.5	9.5	2.7	4.9	22.2	17.5	8.8	11.0	12.9
			2	30	8469	100	11.6	3.9	6.6	20.2	17.6	10.9	13.0	6.1
			3	91	8457	7.2	13.9	5.3	7.9	13.8	21.0	14.2	13.5	3.1
	14062	242 Indian Rd. S. Sarnia	1	9	8506	7.4	6.9	1.6	4.4	6.9	13.8	9.1	9.3	40.3
	17006	St. Anthony's SS Hwy. No. 2, Beachville	1	10	8533	4.2	4.7	8.2	2.1	5.7	14.3	11.5	11.1	38.1
	18013	Bruce Nuclear Site Tiverton	1	10	6807	9.3	8.7	8.1	6.8	9.9	19.5	14.7	10.4	12.7
			2	30	8123	7.8	8.7	6.4	9.6	20.3	16.4	11.6	10.5	8.7
			3	100	8096	12.8	8.5	8.4	5.5	9 4	21.1	16.4	12.5	5.3
WEST CENTRAL	27011	Hydro SS Hwy. 58, Allanburg	1	10	8466	2.9	5.0	5.7	3.5	7.7	18.2	13.7	7.6	35.6
			2	37	8466	7.7	8.3	7.5	5.3	11.1	21.6	20.0	12.3	6.2
	29026	Brampton Woodward Hamilton	1	10	8198	6.1	11.8	10.9	2.0	3.6	19.1	21.2	8.2	17.0
			2	61	8309	6.7	10.4	13.3	9.3	0.9	11.0	25.1	13.6	9.5
CENTRAL	31045	Bruce PS Larchmount Ave., Toronto	2	21	7414	12.1	7.5	7.6	9.6	6.7	5.8	7.7	14.3	28.6
	31025	Island Airport Toronto	1	10	8756	12.9	3.7	19.6	8.9	4.1	7.2	20.5	12.1	10.9
	31120 33003	Junction Triangle Perth Ave., Toronto Lawrence Kennedy	1	18	1134	10.2	1.9	11.5	9.5	8.6	8.6	16.5	10.1	23.0
	33003	Scarborough	1	12	8485	15.0	4.5	8.9	8.5	7.2	8.4	12.9	13.7	20.9
		2	2	76	8367	9.9	6.4	16.1	5.8	9.8	14.7	15.3	17.2	4.6
	35033	Evans Arnold Ave. Etobicoke	1	10	7696	15.1	5.0	5.3	8.3	5.0	7.8	11.5	13.2	28.9
			2	30	8267	16.9	4.5	6.1	14.2	7.7	9.6	11.8	16.7	12.5
	44045	D D W	3	91	8379	19.7	6.9	6.2	13.8	8.6	13.3	10.9	15.0	5.6
	44015	Bronte Rd./Woburn Cres. Oakville	1	10	8062	6.8	4.6	6.6	7.0	4.7	3.4	8.3	8.8	49.8
	45025	Ritson Rd. Olive Ave. Oshawa	1	10	8038	9.7	2.9	3.8	10.1	5.0	2.8	15.0	11.5	39.2
	48002	Trailer, MTC Yard #9 Hwy. 47, Stouffville	1	10	6747	11.4	4.5	7.6	11.9	6.4	7.1	8.8	13.4	28.9
	58031	Filtration Plant Marsh St., Port Hope	1	10	7645	6.7	6.9	10.1	2.9	1.7	2.9	21.6	7.9	39.4
OUTH AST	56065	861 West Second St. Cornwall	1	9	8447	5.8	3.8	13.2	4.3	1.3	6.7	24.2	14.0	26.7
ORTH VEST	63084	Recreational Centre Red Rock St. Martin School	1	12	3707	11.9	1.8	4.2	16.1	5.8	3.7	6.5	8.7	41.5
	63090	Terrace Bay	1	12	1266	11.1	16.2	3.6	8.5	11.0	5.6	10.6	5.7	27.8
ORTH AST	77025	CKNC-TV, 699 Frood Rd. Sudbury	1	10	8166	11.2	11.4	8.2	3.4	8.3	20.2	16.6	11.5	9.2
		8	3	116	6816	10.3	6.1	3.1	3.3	6.3	21.9	23.9	16.2	80

Table 33 Summary of Data: Ambient Air Temperature (temperatures in degrees Celsius)

	STATION		HEIGHT OF	NUMBER OF	MINI-		-20	TEM	IPERA1			72127	MAXI-	VVII9/1/2/1
REGION	NUMBER	LOCATION	SENSOR	HOURS	MUM	<-20	-10	-10-0	0 - 10	10 - 20	20 - 30	> 30	MUM	MEAN
SOUTH	12001	1.1 km NNE Keith G.S. Windsor	18	7584	-25.6	36	377	1399	1894	2417	1445	16	31.3	8.8
	14016	Opposite Lambton G.S. Hwy. 40, Courtright	10	8495	-24.0	36	493	1570	2182	3251	963	0	29.6	7.7
	18013	Bruce Nuclear Site Tiverton	10	8151	-20.6	6	571	1830	2428	2919	397	0	29.2	5.7
WEST CENTRAL	27011	Hydro SS Hwy. 58, Allanburg	10	8480	-25.7	30	492	1492	2090	3289	1078	9	31.5	8.1
	29026	Brampton/Woodward Hamilton	10	8352	-24.2	35	379	1342	2559	2999	1008	30	32.3	8.1
CENTRAL	33003	Lawrence Kennedy	12	8550	26.0	57	EE4	1.400	2020	2017	1010	16	21.0	7.0
	35033	Scarborough Evans Arnold Ave. Etobicoke	10	8511	-26.9 -24.7	48	554 458	1468	2228	3217 3292	1010 988	15	31.6 32.2	7.8 8.1
NORTH EAST	77025	CKNC-TV, 699 Frood Rd. Sudbury	10	8444	-34.1	399	1082	1599	1967	2772	625	0	28 6	3.8

Table 34 Summary of Data: Temperature Difference Level 2 – Level 1 (all temperature changes in Celsius degrees)

			HEIGHT OF	HEIGHT DIFF.	NUMBER	ARITH-		TI		BER OF H		E	
REGION	STATION NUMBER	LOCATION	SENSOR (m)	LEV. 2 – LEV. 1 (m)	OF HOURS	METIC MEAN	< −1.2	−1.2 to −.6	5 to 4	3 to 2	−.1 to −.2	.3 to .9	.9
SOUTH WEST	14016	Opposite Lambton G.S. Hwy. 40, Courtright	30	20	8494	04	2	323	1194	2589	3013	1128	245
WEST	18013	Bruce Nuclear Site	30	20	0434	04		323	1134	2303	3013	1120	243
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Tiverton	30	20	7260	07	169	1009	1570	1705	1507	645	655
WEST	27011	Hydro SS											
CENTRAL		Hwy. 58. Allanburg	37	27	7745	13	37	2047	1607	1350	1286	788	630
	29026	Brampton Woodward											
		Hamilton	61	51	7474	46	951	2923	1118	731	723	527	501
CENTRAL	33003	Lawrence Kennedy											
		Scarborough	76	64	8559	- 56	1773	3389	1027	639	627	495	609
	35033	Evans Arnold Ave											
		Etobicoke	30	20	7772	54	141	3546	2956	652	369	95	13

Table 35 Summary of Data: Temperature Difference Level 3 – Level 1 (all temperature changes in Celsius degrees)

REGION	STATION NUMBER	LOCATION	HEIGHT OF SENSOR (m)	HEIGHT DIFF. LEV. 3 – LEV. 1 (m)	NUMBER OF HOURS	ARITH- METIC MEAN	< -4.9	-4.9 to -2.5	EMPE	MBER (RATUR -1.6 to -1.3	E DIFF	ERENC	_	> 4.0
SOUTH	12001	1.1 km NNE Keith G.S.												
WEST	12001	Windsor	80	62	8107	- 25	1	3	49	172	4219	3244	411	8
	14016	Opposite Lambton G.S.		OL.	0101		1.411		10	1.7.4	72.10	OL.	S34.1 41	
	0.00.00 THE	Hwy. 40, Courtright	91	81	8496	34	0	0	163	1084	4429	1934	782	104
	18013	Bruce Nuclear Site												
		Tiverton	100	90	7751	27	0	128	394	1144	2879	2177	993	36
CENTRAL	35033	Evans Arnold												
		Etobicoke	91	81	8508	19	0	7	26	168	4569	3092	625	21
NORTH	77025	CKNC-TV												
WEST		699 Frood Rd., Sudbury	116	106	6937	28	0	26	110	227	3851	2166	548	9

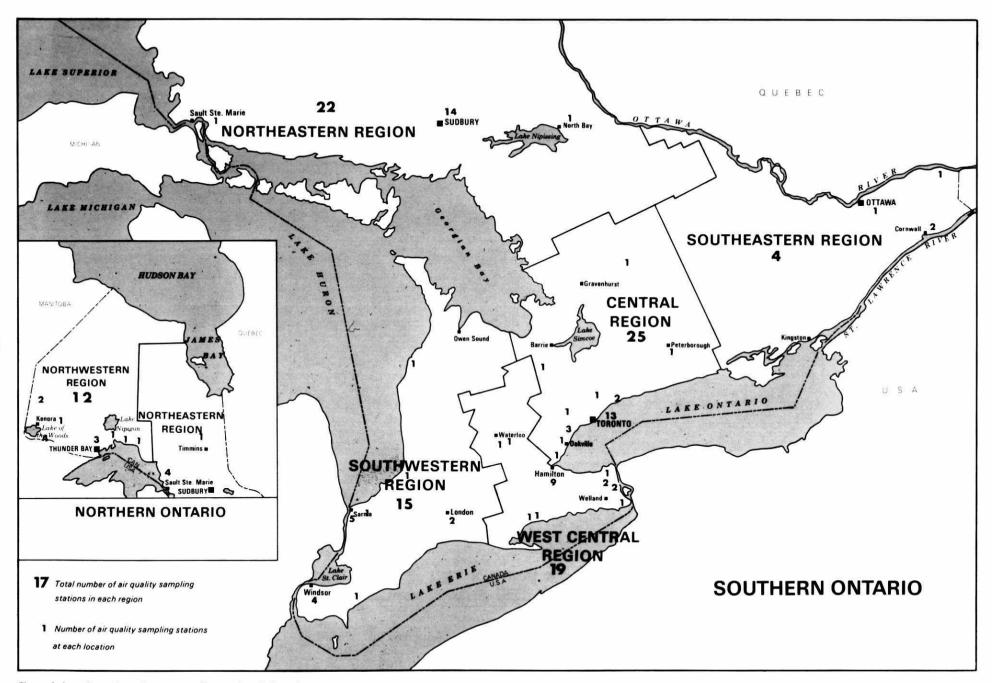


Figure 1. Locations of continuous sampling stations in Ontario.

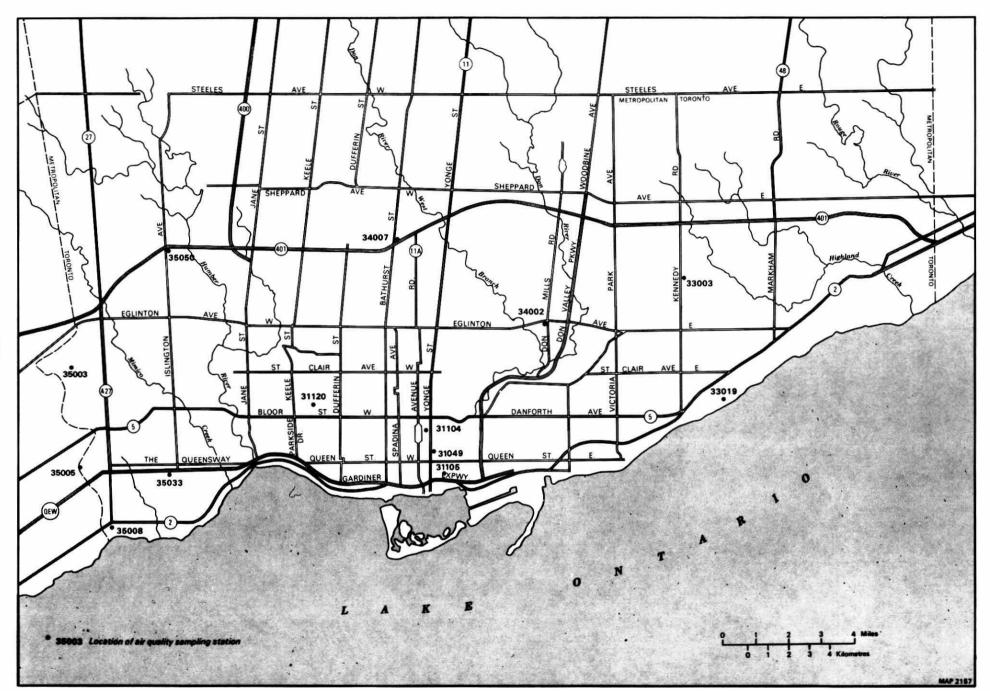


Figure 2. Locations of continuous sampling stations in Metropolitan Toronto.

Figure 3. Locations of continuous sampling stations in Hamilton.

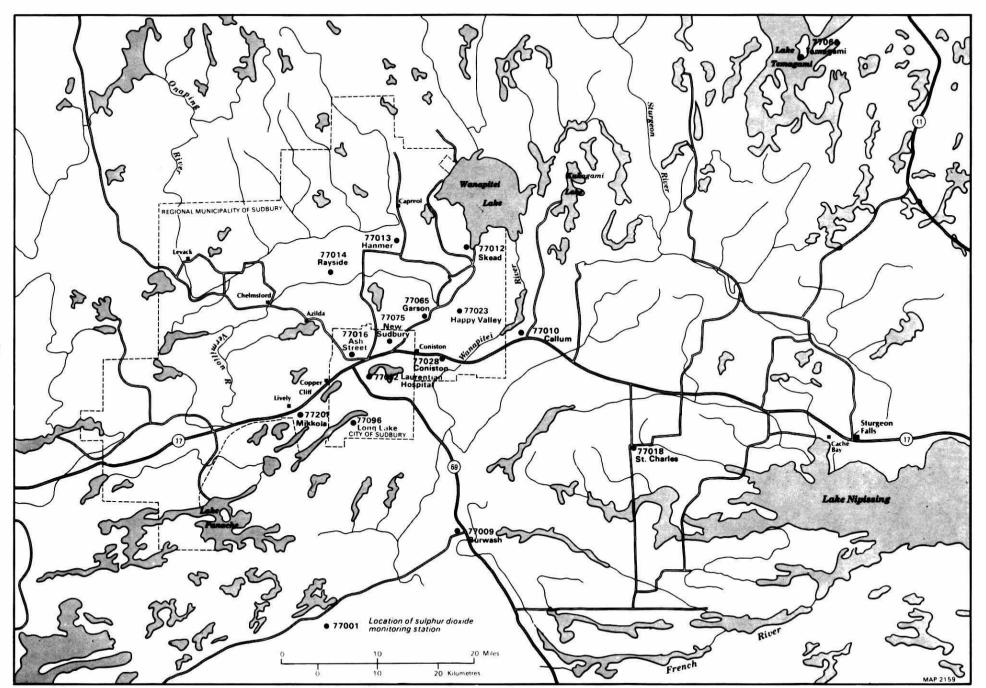


Figure 4. Locations of sulphur dioxide monitoring stations in the Sudbury area.

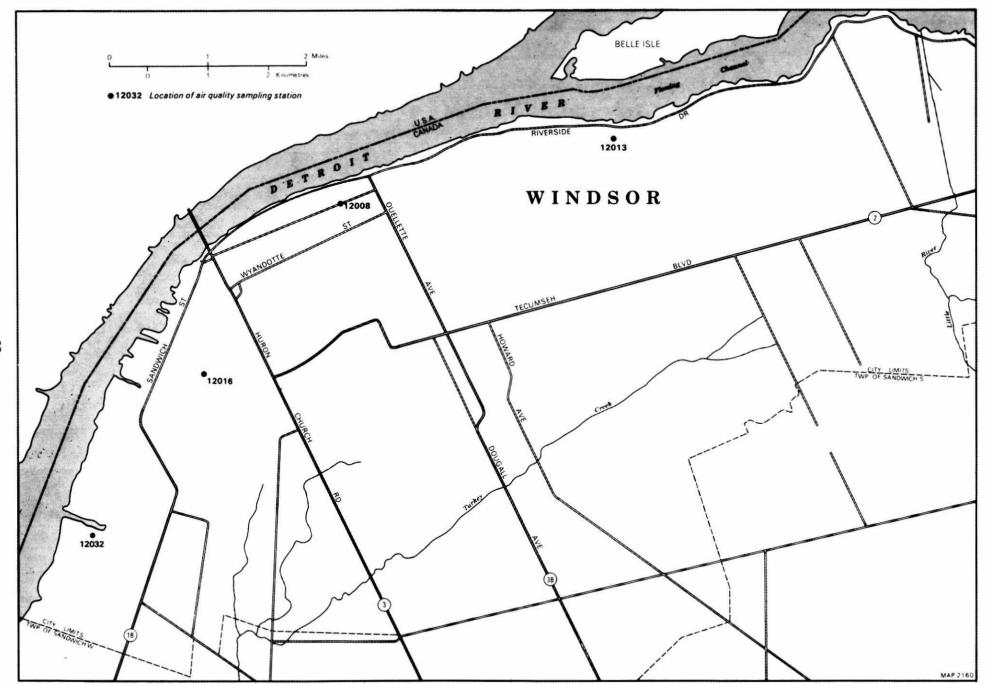


Figure 5. Locations of continuous sampling stations in Windsor.

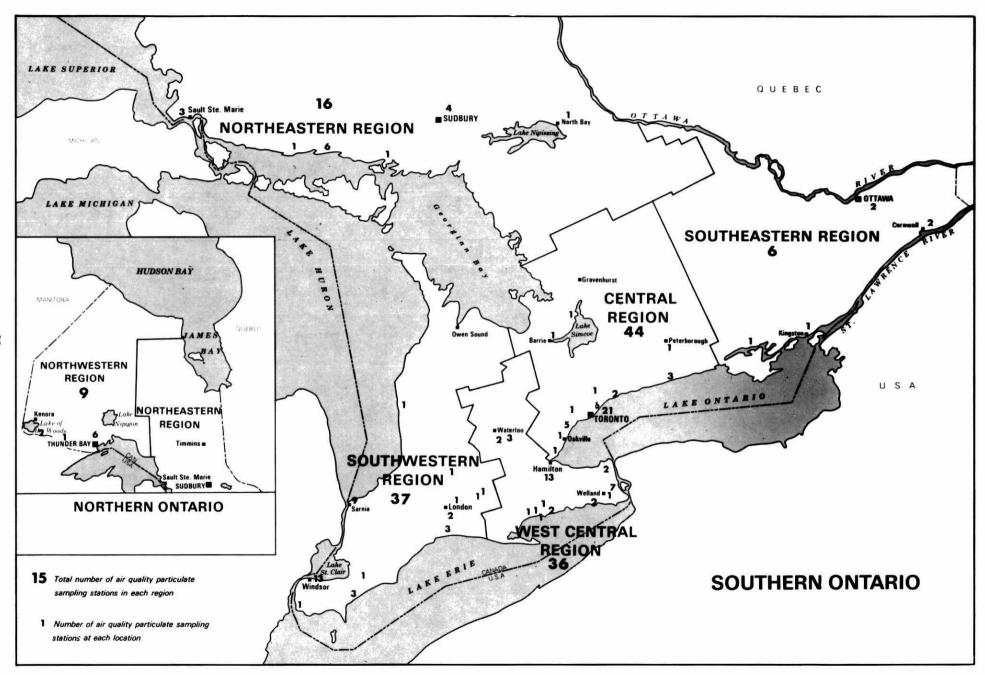


Figure 6. Locations of particulate sampling stations in Ontario.

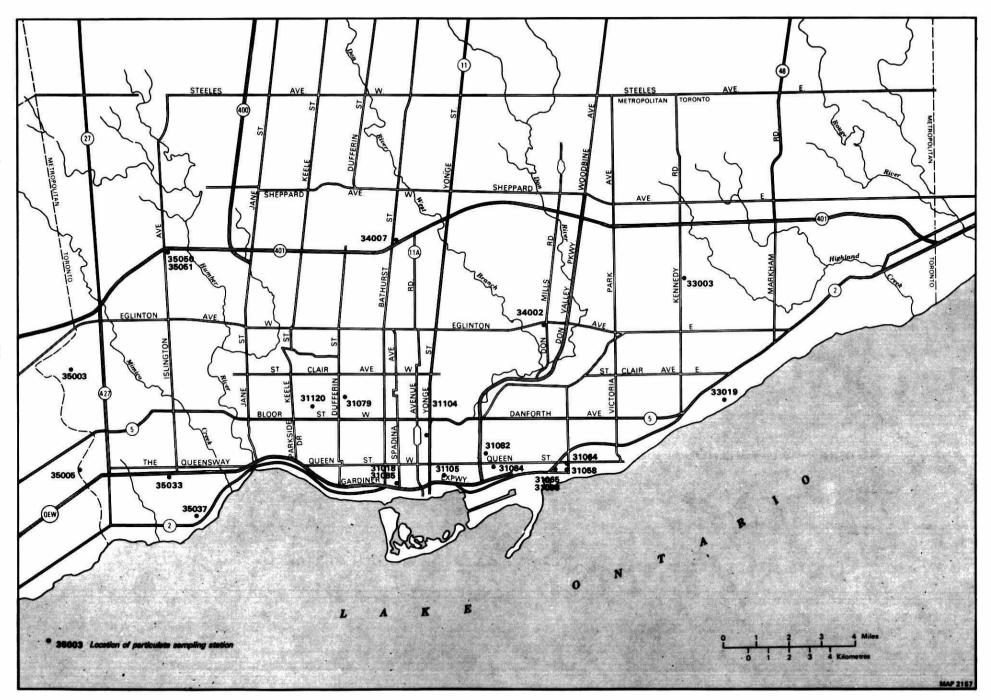


Figure 7. Locations of particulate sampling stations in Metropolitan Toronto.

Figure 8. Locations of particulate sampling stations in Hamilton.

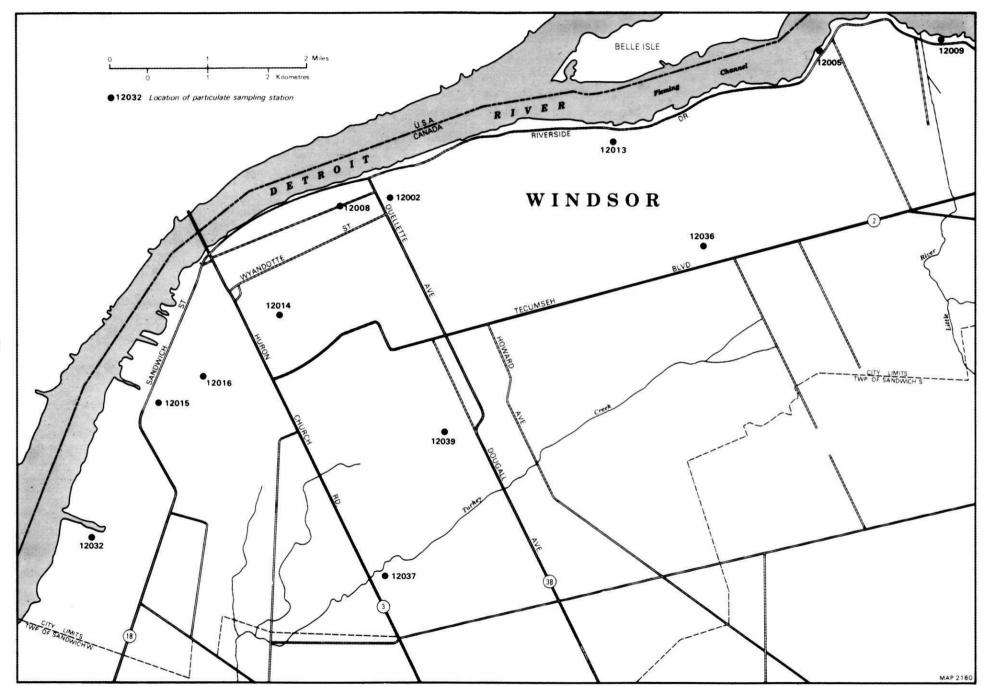


Figure 9. Locations of particulate sampling stations in Windsor.

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